

AWM4
Australian Imperial Force unit war diaries,
1914-18 War

Engineers

Item number: 14/13/29

Title: 1st Australian Pioneer Battalion

July 1918



AWM4-14/13/29

CONFIDENTIAL.

ORIGINAL.
DUPLICATE.
TRIPLICATE.

43

Australian Imperial Force.

WAR DIARY

1ST / OF
HUNT PIONEER BN

FOR
July 1918

Signature of Officer compiling *[Signature]*

Signature of Officer Commanding *[Signature]*
Leut Col.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II, and the Staff Manual respectively. Title pages will be prepared in manuscript.

WAR DIARY
OR
INTELLIGENCE SUMMARY.

(Erase heading not required.)

1st Para
July Orig

Army Form C. 2118.

43

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
Sheet 2nd V12699	July	1	<p>Batta HQ's V12699 A/C Coys located at V12699 B Coy W13C 45.55 D Coy at V24a 4.6. A Coy Construction of concrete M.G positions at W24a 5.4. W26a 2.6 V36 3.6. Loading material at CAESTRE SIDING. Improving and maintaining defensive positions. Repairing shell fire breaks in wire. Making mine traps for roads. B Coy Improvements to COURTE CROIX SWITCH. erection of apron fence at KLITE LOOP erection double apron wire NORD STREET W23. Old trench improvements SUPPORT LINE W30a fortifying M.G position at STRAZEELE C Coy BORRE DEFENCES maintaining and repairing trenches digging in ammunition and throwing out hurdles & excavations for dugouts D Coy improvements to STRAZEELE AVENUE, STRAZEELE OUTER DEFENCES. Patrolling and repairing MERRIS STREET Infantry shelters in support line Lewis gunners engaged on anti aircraft</p>	Weather Fine
V12699	2		<p>B Coy improving deep dugouts at PRADELLES W21C BORRE W19a cutting 50 yds crops W29c trench construction 100 yds trench revetted 140 yds parapet levelled. SUPPORT LINE W29d. Trench construction. 120 yds improved and revetted. Strengthening cellar at W13c 35.50. Construction of M.G (concrete) positions at W24a 5.4. V36 3.6. W. 26a 2.6 24 tons of concrete thrown Maintenance and improvement of defensive positions of ROUGE CROIX defences. Supervision of construction of artillery dugouts. Improving trench SUPPORT LINE W30a 1.0 to W30a 3.3 M.G Position at W29a 6.7 excavating dugouts W30a 2.4 to W30a 20.65. D Coy resting Lewis Gunners on anti aircraft</p>	Weather Fine
V12699	3		<p>Improving deep dugouts at PRADELLES 12 bunk frames completed, 20 bushes wire cut on 50 yds frontage. Trench construction at W29c. 120 yds wire net at W29d Strengthening cellar at W13c 35.50 110 sandbags used. Patrolling RE national Resting trench sandbagging parapets W30a 2.9 Grading trench Laying sandbags cleaning off parapets Construction of concrete M.G positions at W24a 5.4 7 tons concrete thrown V36 3.6 erecting temporary wire. W26a 2.6 8 tons concrete thrown Maintenance and improvements of defensive positions of ROUGE CROIX Supervision of construction of artillery dugouts Lewis Gunners on anti aircraft Batta Band proceeds to Artillery school.</p>	Weather Fine

WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II, and the Staff Manual respectively. Title pages will be prepared in manuscript.

or
INTELLIGENCE SUMMARY.

(Erase heading not required.)

43

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
V12699	July 4		Construction of concrete M.G positions at W24a 5.4. V3 b. 3.6. W26 d. 2.6. 21 tons tons concrete thrown 21 barrels cement 252 bags sand 504 bags stone used Maintenance and improvements of defensive positions of ROUGE COIX. Supervision of construction of artillery dugouts. Improving deep dugouts at PRADELLES W21C BORRE W19d Trench construction W29C. Trench construction SUPPORT LINE W29d. Shimming 150yds hedge W30d paraging LE PEUPLIER STATION. Improving trench W30 a 1.0. to W30 a 33. Deepening trench W30 a 24. to W30 a 20.65 Building up parapet and deepening trench W30 a 25.50 to W30 a 20.75. Excavating dugouts at W30 a 30.9 8yds communication trench deepening trench from W30 a. 28. to W30 a 50.99. Party employed at Dump. 2 O.R. wounded. Lewis Gunners engaged aircraft	Weather Fine
V12699.	5		Improving deep dugouts at PRADELLES W21C Cutting crops at BORRE W19d. Trench construction at W29C 1300yds parapet and parapet levelled 30yds trench widened 5'8". Trench construction SUPPORT LINE W29d 120yds trench widened cleaned and improved. Strengthening cellar at W13C 3550. Trench construction from W30 a. 28 to W30 a 50.99. from W30 a. 3.4 to W30 a 5.5 Making 2 kniferoosts at W23 b 05.65 and wiring 16yds double apron wire. Construction of concrete M.G positions at W24a 5.4. E3 b 3.6. W26 d. 2.6 28 tons concrete, thrown 28 barrels cement 336 bags of sand 642 bags of stone used Loading material at CAESTRE siding Maintenance and improvement of defensive positions of ROUGE COIX. Supervision of construction of artillery dugouts Lewis Gunners on anti aircraft	Weather Fine
V12699	6		Construction of concrete M.G positions at W24a 5.4. E3 b 3.6. W26 d. 2.6. 41 tons concrete thrown 41 barrels cement. 492 bags sand 984 bags stone used. Loading and unloading material at CAESTRE SIDING. Maintenance and improvement of defensive positions of ROUGE COIX. Supervision of construction of artillery dugouts Improving deep dugouts at PRADELLES W21C Making 6 kniferoosts for BORRE defences W19d. Trench construction at W29C and support line W29d 230yds trench improved 4 dugouts 45yds excavated. W21C 00. E4 b 99 V25 b 44. E3 C 04 Preparing cups for pill boxes Trenches repaired and parapet strengthened. SUPPORT LINE from W30 a. 2.8 to W30 a 20.00. Repairs to W30 D trench communication trench construction dugout for artillery O.P. 4 large kniferoosts constructed Lewis Gunners engaged on anti aircraft	Weather Fine

D. D. & L., London, E.C.
(A7883) Wt. W809/M1672 350,000 4/17 Sch. 92a Forms/C/2118/14

WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II, and the Staff Manual respectively. Title pages will be prepared in manuscript.

or
INTELLIGENCE SUMMARY.

(Erase heading not required.)

43

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
V12699	July 7		Construction of concrete Machine Gun positions at W27a 54, E3 b 3.6, W26 d 2.6 54 tons concrete through 54 barrels cement 1684 bags sand 1384 bags of stone Loading and unloading material at CAESTRE Sidina Maintenance and improvements of defensive positions of ROUGE CROIX Supervision of construction of artillery dugouts. Improving deep dugouts at TRADELLES W21C making Rmp's roots for BORRE defence W19 d Trench construction W29C 50yds deepened 26yds levelled 70yds duckwalked 40yds fire stepped 80yds parapet and parapet levelled Trench construction E5a Support line 80yds trench improved 200yds parapet levelled 100yds trench fire stepped 40yds levelled 2 dugouts completed 10yds communication trench. E4 f 9 g Preparing site for pill box. V28 b 44 Palrading material and clearing site for pumping station Improvements of trenches SUPPORT LINE Reports to NORD STREET and Wire entanglements 120yds double apron fence erected. Constructing Rmp's roots Lewis gunners on anti aircraft.	Weather FMS
V12699	8		Improving deep dugouts at TRADELLES W21C Making Rmp's roots wire entanglements at BORRE W19 d Trench construction at W29C. Trench construction E5a Support line 140yds trench improved 20yds parapet sunbathed 20yds trench levelled 50yds communication trench completed 2 dugouts completed 2 dugouts excavated. 160yds trench widened and deepened SUPPORT LINE 3 Rmp's roots completed W24 a 19. W25 f 2 140yds drain wired Construction of MG position concrete at W24a 5.4 Removing boring and cleaning up job E3 b 3.6 16 tons concrete through 16 barrels cement 192 bags sand 384 bags stone used supervision of construction of artillery dugouts. Preparing site for pill box at E4 f 9 g Lewis gunners on anti aircraft. Jahn sends a representative to renew in PARIS	Weather Warm Dull Showery
V12699	9		MG position (concrete) completed at W24a 5.4. Removing boring and cleaning up job at E3 b 3.6. Concrete MG position at W26 d 2.6 - 19 tons concrete through 19 barrels cement 228 bags sand 456 bags stone used loading and unloading material at CAESTRE Maintenance and improvements of defensive positions of ROUGE CROIX Supervision of construction of artillery dugouts for 1st 2nd Artillery Regts. Improving deep dugouts at TRADELLES W21C making 6 Rmp's roots at BORRE W19 d. Trench construction W29C 60yds deepened 30yds duckwalked 50yds fire stepped 50yds parapet levelled. 120yds trench improved at E5a SUPPORT LINE 50yds parapet levelled 140yds fire stepped 50yds parapet Construction of pill box at W28 f 44 Loading and unloading stone and sand. Trench construction SUPPORT LINE W30a 2.6 80yds trench widened W30a 6.9 50yds widened. W30a 3.5 40yds widened 30yds levelled W30a 1.0 130yds trench improved and partially levelled parapet strengthened and levelled. Lewis Gunners engaged on anti aircraft.	Weather FMS Showery

WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II, and the Staff Manual respectively. Title pages will be prepared in manuscript.

or
INTELLIGENCE SUMMARY.

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
V12699	July 10		<p>Improving deep dugouts at TRADELLES W21 C. Wire entanglements BORRE W19 C. 3900 proof doors completed. 160 yds single apron fence completed at trouf. Trench construction at W29 C. 14 yds deepened 65 yds widened 34 yds duckwalked. 60 yds trench revetted 43 yds sandbagged 56 yds fire stepped. Trench construction SUPPORT LINE E5 A 60 yds trench widened and improved 30 yds communication trench dug. Maintenance and improvements to STRAZEELE DEFENCES Concrete M.G. positions at E3 + 36 completed. Concrete M.G. position at W26 d 2.6. 10 tons concrete thrown. 10 tons cement 120 bags sand 240 bags stone used and position completed. Maintenance and improvements to defences positions of ROUGE CROIX. Supervision of construction of Artillery dugouts. V28 + 44 E.S. CO. 4. Palms timber and piping for water supply prepared for engine. Bagging 1000 bags of metal for cell cell at CAESTRE SIDING for pull boxes at E3 C. O. 7 and E4 + 99. Nuclear Garrison at TRADELLES DEFENCES wire entanglements from W21 C. 9. 2 to W24 a. 4. 9 3 km posts completed. 60 yds trench widened & deepened at W30 a. 6. 9 34 yds trench revetted 40 yds prepared for anchorage at W30 a. 2. 8 30 yds trench revetted 20 yds anchorage completed at W30 a. 3. 3. Trench construction at W30 a. 6. 9 45 yds trench widened Lewis gunners on anti aircraft. Casualties 10R killed 30R wounded 10R wounded from anti aircraft.</p>	Weather Fine Showery
V12699	11		<p>Improving deep dugouts at TRADELLES W21 C. Wire entanglements at BORRE W19 C. 2900 proof doors erected dugouts parapet on 100 yds single apron fence 150 yds double apron fence erected. Trench construction W29 C. 65 yds trench deepened 16 yds revetted 36 yds duckwalked 90 yds fire stepped & curature of 9 dugouts completed. 105 yds trench improved in MERRIS STREET. Trench construction SUPPORT LINE E5 A 43 yds trench widened to 5' 8" 13 yds deepened to 6'. 16 yds trimmed & revetted and duckwalked 30 yds communication trench deepened & trimmed 4 dugouts completed. Maintenance and improving STRAZEELE DEFENCES curature of 50 yds drainage SUPPORT LINE W30 a. 6. 9. Revetting 30 yds trench W30 a. 2. 8 40 yds widened W30 a. 5. 3 25 yds revetted 30 yds parapet sandbagged at W30 a. 6. 9. Curature 40 yds communication trench from W23 c. 8. 0 to W23 a. 2. 3. Dismounting concrete engine base for installation water supply at V28 + 44. Bagging material at CAESTRE SIDING for pull boxes Nuclear Garrison on TRADELLES DEFENCES. 150 yds single apron fence erected and 2 km posts completed. Bagging material for concrete forms and piping for water supply. Maintenance & improvements to defences positions of ROUGE CROIX. Constructing km posts and laying road gullies. Supervision of construction of Artillery dugouts. Lewis gunners on anti aircraft work.</p>	Weather Wet Rain
V12699	12		<p>Wire entanglements. Improving deep dugouts 150 yds double apron fence erected; deep dugouts pumped. Trench construction at W29 C. 50 yds trench widened 40 yds revetted 25 yds duckwalked 31 yds fire stepped 100 yds parapet levelled 10 yds revetted 40 yds improved 40 yds drained at MERRIS STREET. Trench construction SUPPORT LINE 30 yds trench deepened to 6' 18 yds widened 54 yds revetted 12 yds revetted with A fence and wire 12 yds duckwalked 1 dugout completed. Maintenance and improvements to STRAZEELE defences. 45 yds of communication trench completed from W23 c. 8. 5 to W23 d. 2. 2. 55 yds drain & curature from W23 d. 2. 0 to W23 a. 12. Support line revetted 30 yds W30 a. 2. 8 to W30 a. 4. 9. Revetting trench W30 a. 2. 8 to W30 a. 3. 6. 30 yds trench revetted 70 yds duckwalked 40 yds parapet levelled & sandbagged. Preparing forms for pull box at E.S. CO. 7. V28 + 44. Repairing road to pump station 12 yds curature for engine base. Taking down sheds & erecting frame to compound engine site. Installing water service (1000 feet 4" x 3") leading and unloading 16 tons metal. Bagging metal and sand at CAESTRE. Maintenance & improvements to defences positions of ROUGE CROIX defences. Lewis gunners on anti aircraft.</p>	Weather Rainy Wet

D. D. & L., London, E.C. (A2833) Wt W809/M1672 350,000 4/17 Sch. 52a Forms/C/2118/14

WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II, and the Staff Manual respectively. Title pages will be prepared in manuscript.

INTELLIGENCE SUMMARY.

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
V12699	July 13		<p>Work entanglements cutting crops. Improving deep dugouts at BORRE and PRADELLES 50yds double apron trench erected. 150yds frontage of trench dugouts pumped. 40yds trench widened at W29.C 60yds trench revetted 34yds duckwalked 45yds fire stepped. 10yds parapet levelled. 50yds trench improved MERRIS STREET 40yds new drainage apron depth 2'6". French construction at E5a and E5b 20yds trench deepened 30yds widened 50yds revetted 100yds apron for drainage 50yds duckwalked maintenance and improvement of STRAZEELE defences. Revetted trench SUPPORT LINE W30a 2.8 to W30a 2.5. Revetted trench 50yds support line revetted 25% complete. Repairing trench SUPPORT LINE W30a 2.8 to W30a 4.9. 140yds sandbagging parapet 140yds trench parapet 95yds anchorage. Improving drainage SUPPORT LINE W30c 2.0 to W30a 2.8. 40yds trench for pull box base 150yds at E4 & 99. Preparing trench for pull box E3.C.04. Includes garrison at PRADELLES DEFENCES. Work entanglements 250yds single apron wire erected W20b 6.0 to W20b 4.4 300yds single apron wire erected. Bagging concrete material CAESTRE siding and Wya 08 17 tons metal and 30 tons sand loaded at CAESTRE SIDING and unloaded at E3.C.04 and E4 & 99. 400yds excavation 12 cubic yards V28b 4.4. Maintenance and improvement of defences positions of Rouge Croix. Lewis Gunners on anti aircraft. CASUALTIES 4 other tanks wounded.</p>	<p>Weather FINE Ball's Pond returns from Artillery School</p>
V12699	14		<p>Maintenance of deep dugouts and BORRE defences dugouts pumped crops cut or 100yds frontage trench construction W29.C 40yds deepened 20yds duckwalked 300yds fire step levelled. 60yds trench widened at MERRIS STREET. Trench construction SUPPORT LINE E5a and E5b 12yds widened & deepened 40yds widened 40yds revetted 40yds fire stepped 36yds duckwalked. Repairing wire STRAZEELE DEFENCES. Revetted trench W30a 2.9 20yds trench. Trench improvement W30a 2.8 to W30a 4.9 25yds parapet sandbagged 65yds levelled. Two MG emplacements constructed. Trench improved from W30a 6.2 to W30a 8.5 trench improved from W30a 2.8 to W30a 8.5 at E3.C.04 excavation completed 16 cubic yds excavation for pull box at E4 & 99. Maintaining and repairing trenches PRADELLES DEFENCES 600 bags metal filled CAESTRE SIDING. Preparing material for concrete. Construction of pull box at V28b 4.4. Maintenance and improvements to ROUGE CROIX defences trench road in front of ROUGE CROIX. Constructing concrete Lewis Gunners on anti aircraft. CASUALTIES 1 other tank killed.</p>	<p>Weather FINE</p>
V12699	15		<p>Revetting trench W20a 20.98 to W24.C 51. Trench improvements W30a 2.8 to W30a 20.95 20yds parapet sandbagged 20yds parapet levelled 125yds parapet propped for anchorages. Trench improvements W30a 2.5 to W30a 20.95 10yds trench repaired NORD STREET. Trench construction W29.C 20yds widened and deepened 55yds revetted 26yds duckwalked 100yds parapet formed 150yds wire netting laid on duckwalks 26yds anchorage 100yds trench widened deepened and graded in MERRIS STREET. 60yds trench deepened SUPPORT LINE E5a 15yds widened 126yds widened 30yds fire stepped. Maintenance of deep dugouts and crops cut on 150yds frontage at BORRE and PRADELLES. Maintenance and improvement of STRAZEELE DEFENCES. Maintaining and repairing trenches PRADELLES defences. Work entanglements 300yds of double apron wire erected. Plastering walls in building for pull box at E4 & 99. Preparing material for concrete work. Loading and unloading material at CAESTRE SIDING. Construction of pull box E3.C.04. Water service completed. Construction of pull box V28b 4.4. Casing to cement base. Substitution of water signal. Camouflaging site 12 cubic yds excavation. Maintenance and improvement of defences positions of ROUGE CROIX. Lewis Gunners on anti aircraft. Lt Col URA M. LELAND and 10 R of 303rd Engineers 48th Div. American forces attached for inspection of works of work.</p>	<p>Weather Showy</p>

D. D. & L., London, E.C.
(A7883) Wt. W809/M1672 350,000 4/17 Sch. 52a Forms/C/2118/14

WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II, and the Staff Manual respectively. Title pages will be prepared in manuscript.

or INTELLIGENCE SUMMARY.

(Erase heading not required.)

43

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
V12699	July 16		<p>Trench construction at 29C 20yds trench widened to 6' 4yds revetted 12yds duckwalked 100yds parapet + bird former 50yds netting laid on duckwalks 90yds trench widened and improved MERRIS STREET trench construction SUPPORT LINE E5a and b 50yds trench widened to 6' 30yds trench deepened 18yds revetted 12yds duckwalked 300yds drainage improved. Maintenance and improving trenches STRAZEELE defences. Maintenance of deep dugouts at BORRE Craps cuton 150yds front at PARDELLES 330yds double apron wire laid. Preparing walls and concrete board for pill box at E4 699. Preparing forms and dumping material at E3 COY for pill box. Preparing material for concrete works Bagging 3 cubic yds excavation. Bringing a pump for concrete and standing water service. Trench improvement W30a 20 95 to W24 0 5.1 15yds support line revetted 30yds prepared for anchorage 35yds sandbagged 35yds parapet levelled W30a 26 to W30a 20 95. 55yds parapet prepared for anchorage 25yds parapet levelled W30a 3.6 to W30a 2.8 40yds parapet sandbagged 40yds parapet levelled 25yds trench duckwalked W30a 25 to W30a 24 35yds trench 25yds anchorage 25yds parapet levelled 25yds sandbagged. 10yds trench repaired HOND STREET Maintenance and improvements to defensive position of Rouge Croix Lewis Gunners engaged on anti aircraft.</p>	Weather Warm
V12699	17		<p>Construction of pill box at E3 COY preparing forms for box and dumping material preparing material salvaged from trucks for reinforcement and forms for concreting loading and unloading material 16 tons metal and 10 tons sand CAESTRE SIDING. Palbraging timber and iron for reinforcing for concrete. Replenishing water in defences of ROUGE CROIX digging dugouts accommodation. 114 barrels cement 10 tons sand unloaded at HOND CHERA. Const. foundation of pill box at E4 699 8 cubic yards excavation for pill box foundation strengthening roof shed over pill box pumping water for concrete. V26 44 Bringing for concrete base 200ft timber piled camouflaging site B Coy resting A Coy changing over D Coy changing over Lewis Gunners on anti aircraft.</p>	Weather Raining
V12699	18		<p>B Coy and Ball's Band strength of 50ff. and 440 D.R. moved to Raquunghem area for rest. Clearing camp at 9 AM. Relieved by No 1 Coy 14th Batta WORCESTER REGT. Nuclear garrison moving at ROUGE CROIX DEFENCES W15 6 75. Constn of pill box at E3 COY. Dumping concrete for base 8 cubic yds concrete thrown for base at E4 699 Loading and unloading at CAESTRE SIDING. Preparing concrete material. Trench improvements at TIFLIS STREET 50yds trench widened 30yds parapet sandbagged 30yds parapet outer line STRAZEELE defences 120yds firestep erected 25yds excavation for drainage. 60yds trench graded and drained MERRIS STREET communication trench 35yds excavation. 50yds parapet sandbagged SUPPORT LINE E5a 50 50 to W29 d 30. 10 50yds parapet levelled 50yds revetted 40yds firestep erected 10yds repairs to damaged trench. Road repairs filling in shell holes at W13 d 10. 30. Erecting Removable bath at VII C. 20 50. Trench improvements SUPPORT LINE E5a 50 50 to W29 d 30 10 90yds trench widened deepened and prepared for revetting. Improving and revetting SUPPORT LINE W24 C 4 2 to X 19 C. 3. 7. Lewis Gunners engaged on anti aircraft.</p>	Weather Fine Appendix 2

D. D. & L., London, E.C. (A7883) Wt. W809/M1672 350,000 4/17 Sch. 52a Forms/C/2118/14

WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II, and the Staff Manual respectively. Title pages will be prepared in manuscript.

or
INTELLIGENCE SUMMARY.

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
V12699	July 19		<p><u>B Coy spelling RACQUINGHEM AREA</u> Rewetting trench TIFLIS STREET W29C.6.9 50yds widened deepened and graded 40yds retwelled 50yds parapet sandbagged 50yds parapet levelled 10yds trench repaired. French improvement W29C68 60yds parapet 60yds parapet sandbagged 10yds shell damaged trench repaired. SUPPORT LINE E5a 74 60yds parapet sandbagged 40yds trench 50yds trench deepened widened and armoured MERRIS ST. 100yds trench deepened widened and graded SUPPORT LINE E5a 78. Erecting division bath at VII.C. 2.5. Construction of concrete O.P. at X19C.05.80 Improving support line W24C.72 to X19C.37 Improving line W30a 3.5 to W29d 40.76. Maintaining and repairing ROUGE CROIX defences 50yds hedge thinned at W9d 9.14. Bagging material loading and unloading CHESTRE SIDING Loading and unloading at HONDECEM Constructing pill box at E3C.0.4 140yds concrete thrown Pill box at E4b.99. Constr of Pill Box at V28b.44. 60yds of concrete thrown for gun concrete for Lewis Gunners on anti aircraft</p>	Weather Wet
V12699	20		<p><u>B Coy spelling RACQUINGHEM AREA.</u> French Improvements TIFLIS STREET. 30yds trench retwelled 30yds parapet sandbagged 45yds parapet levelled 35yds trench deepened and graded 12yds duckwalked OUTER STRAZEELE LINE W28C.7.5 to W29a.6.2 50yds parapet sandbagged 50yds levelled 40yds trench deepened. SUPPORT LINE E5a 65 to E5a 74 40yds trench 35yds parapet sandbagged 50yds parapet levelled 40yds duckwalked 40yds trench 10yds trench repaired. MERRIS ST 45yds trench duckwalked 50yds trench deepened widened and graded 4yds drain & covered. SUPPORT LINE E5a 66 10yds trench to shell damaged trench 100yds trench 50yds trench deepened widened and deepened. Constructing building for Div Baths at VII.C.2.5. Construction of concrete O.P. at X19C.05.80. Clearing site for concrete 16yds dug 2' deep Improving support line W24C.72 to X19C.37. W30a 3.5 to W29d 40.76. Nuclear garrison maintaining and repairing ROUGE CROIX defences Preparing concrete material for pill boxes Loading and unloading concrete material at CHESTRE Construction of pill boxes at E4b.99 and E3C.0.4. Construction of concrete shelter for pumping plant at V28b.44. Lewis gunners on anti aircraft.</p>	Weather Fine Showery Fine
V12699	21		<p>French Improvements TIFLIS STREET 26yds trench 60yds 45yds widened deepened and graded 30yds parapet sandbagged 30yds parapet levelled 30yds duckwalked OUTER STRAZEELE LINE W28C.7.5. 40yds sandbagged 60yds trench deepened and graded SUPPORT LINE E5a 65 to E5a 74 35yds trench 90yds trench 35yds levelled 50yds trench 35yds duckwalked 10yds trench SUPPORT LINE E5a 66. 100yds trench widened deepened and graded. MERRIS STREET 54yds duckwalked 36yds trench widened and graded Erecting Division bath at VII.C.2.5. Improving SUPPORT LINE W24C.72 to X19C.37. 108cyds excavated for trench shelter W30a 3.5 to W29d 40.76 25yds trench. Construction of concrete O.P. at X19C.4.5.80 preparing gun material. Maintaining and repairing defences of ROUGE CROIX. Preparing concrete material for pill boxes Loading and unloading material at CHESTRE SIDING Construction of concrete pill boxes at E3C.0.4 V4b.99. Construction of concrete shelter for pumping plant at V28b.44 Lewis Gunners on anti aircraft. <u>B Coy spelling RACQUINGHEM AREA</u></p>	Weather Fine

WAR DIARY

Army Form C, 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II, and the Staff Manual respectively. Title pages will be prepared in manuscript.

INTELLIGENCE SUMMARY.

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
V12.699	July 22		<p><u>B Coy spelling RACQUINGHEM AREA</u> Trench improvements TIFLIS STREET 40 yds riveted 30 yds parapet sandbagged 45 yds fire step erected 25 yds widened 4 3/4 yds parapet levelled. OUTER STRAZEELE LINE W28 C.75 75 yds parapet sandbagged 60 yds parapet riveted. SUPPORT LINE E5a 55 to W29 d 31. 45 yds trench riveted 45 yds parapet sandbagged 80 yds parapet 18" from 40 yds fire step 31 yds duckwalked. 30 yds trench deepened and graded. MERRIS STREET 50 yds duckwalked. SUPPORT LINE E5a 66 100 yds trench deepened widened and graded 30 yds deepened widened and graded for trench. VII C.25. Erecting Dismountable Bunkers. Construction of trench shelters W14 C.15.40 Construction of concrete O.P. at X19 C.05.80 preparing tying and reinforcing irons. Improving support line from W24 C.42 to X19 C.34 1000 yds excavation for trench shelter W30 a 3.5 to W29 d 40.75 Improving support line 28 yds riveted 15 yds anchored back 15 yds parapet and parapet sandbagged. Maintaining and repairing defences positions of ROUGE CROIX. Preparing material for concrete work. Baggery 500 bags metal CASTRE SIDING Transporting concrete material from CASTRE SIDING various positions. Construction of pill box at E3 C.04 erecting forms on job preparing mixing board V28 644. Constn of concrete shelter for pumping plant. Brng for foundation. Laying steel rods plumbing exterior of water and salting material. Constn of pill box at E4 499 pulling up forms laying on reinforcement. Salting timber and iron for reinforcing. No 1 Coy 17th Batta Worcester Regt. Rights attached for work Lewis Gunners employed on anti air craft.</p>	Weather FINE
V12.699	23		<p><u>B Coy spelling RACQUINGHEM AREA</u> Trench improvements TIFLIS STREET 50 yds trench widened deepened and graded for rivetment 40 yds fire step erected 30 yds parapet levelled 30 yds parapet sandbagged. OUTER STRAZEELE LINE W28 C.75 60 yds trench widened deepened 20 yds parapet sandbagged 45 yds fire step riveted. SUPPORT LINE E5a 55 to W29 d 31 20 yds parapet levelled 50 yds ditch on parapet 60 yds fire step erected 30 yds repaired 60 yds riveted. MERRIS STREET Common TRENCH Estn 60 yds trench deepened 50 yds duckwalked 20 yds excavated for drain. SUPPORT LINE E5a 66 100 yds trench widened deepened and graded. Constructing two infantry dugouts 10 yds C.T excavated to dug out 10 yds drain deepened and cleared. Constructing DIV BATHS at VII C.25. Constructing trench shelters W14 C.15.40. Construction concrete O.P. at X19 C.05.80 preparing tying and reinforcing irons. Improving SUPPORT LINE W24 C.42 to X19 C.34 840 yds excavation for trench shelter drainage cleaning up and leveling benches W30 a 3.5 to W29 d 40.75. 24 yds riveted 12 yds parapet and parapet sandbagged. Nucleus garrison maintaining and repairing the defences positions of ROUGE CROIX. Preparing concrete material for pill box construction. Extruding iron and timber for concrete work. Baggery 600 bags metal CASTRE SIDING Transporting material to various sites from CASTRE SIDING. Construction of pill box at E3 C.04 erecting forms and reinforcing. Constn of concrete shelter for pumping plant at V28 644. Construction of pill box at E4 499 erecting forms completed placing reinforcement. No 1 Coy 17th Batta Worcester Regt attached for work. Lewis Gunners engaged on anti air craft.</p>	Weather Heavy Rain

D. D. & L., London, E.C.
 (A7883) Wt. W809/M1672 350,000 4/17 Sch. 52a Forms/C/2118/14

WAR DIARY

Army Form C 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II, and the Staff Manual respectively. Title pages will be prepared in manuscript.

INTELLIGENCE SUMMARY.

(Erase heading not required.)

43

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
V12 6.99	July 24		<p><u>B Coy spelling RACQUINGHEM AREA</u> Trench improvement at TIPLIS STREET 20 yds first step erected 14 yds parapet sandbagged 20 yds parapet levelled 10 yds trench widened MERRIS STREET deepened and graded for rivetment, 60 yds trench deepened OUTER STRAZELE LINE W28C45 160 yds widened SUPPORT LINE E5a66 40 yds widened deepened and graded for rivetment Improvement of drainage SUPPORT LINE E5a66. Supervision and erection of DIVISIONAL BATHS at VII.C.25. MERRIS STREET 90 yds trench drained 45 yds duckwalked. SUPPORT LINE E5a55 to W29d31 40 yds parapet levelled 40 yds parapet 1'6" high 20 yds first step 30 yds sandbagged 30 yds levelled. Construction of trench shelter at W14C15.40. Construction of concrete O.P. at X19C05.80 120 yds piping laid for water supply. Improving support line W24C42 to X14C34 30 yds trench widened 12 yds riveting 4 dugouts complete, enlarging and cleaning dugouts W30a35 to W29d40.75 20 yds rivetted 36 yds anchored back 12 yds trench sandbagged. Nucleus ofarrison maintaining defensive positions of ROUOE CROIX Preparing concrete material for concrete pill box at CAESTRE SIDING and transporting material to various posts Construction of concrete pill box at E3C04 erecting forms and transferring error construction of pill box at E4b99 placing reinforcement. Construction of concrete shelter for pumping plant at V28b44 erection of iron and forms for concrete preparation and for casing, anchoring iron for water plumbing on water supply. Preparing timber and iron for reinforcing at various locations. No1 Coy Wireless Sign Regd attached for work Lewis gunners engaged on anti aircraft. CASUALTIES 6 O.R. wounded.</p>	<p>Weather Fine and Showery</p>
V12 6.99	25		<p><u>B Coy spelling RACQUINGHEM AREA</u> Trench improvement. SUPPORT LINE E5a66 80 yds deepened and widened 70 yds parapet levelled SUPPORT LINE E5a55 to W29d31 50 yds trench deepened and widened 60 yds parapet levelled 15 feet first step erected MERRIS STREET Common TRENCH forward 28 yds deepened graded, and drained 35 yds drainage deepened 42 yds duckwalked. 30 yds parapet levelled TIPLIS STREET 10 yds trench widened for rivetment at MERRIS STREET E5a25 60 yds trench deepened Supervision and erection of divisional baths at VII.C.25. 60 yds parapet sandbagged and levelled 60 yds trench deepened and first step constructed at OUTER STRAZELE W28C45. 11 dugouts completed at W14C15.40. Construction of concrete O.P. at X19C05.80 Improving support line W24C42 to X19C34 40 yds trench semi complete, 10 dugouts and 1 MG shelter complete deepening and widening trenches. Improving support line W30a35 to W29d40.75 60 yds trench sandbagged trench graded and widened Maintaining and repairing Defensive positions of ROUOE CROIX Widening and improving parapet and parapets 56 feet wide W9d15.15 to W16a95.65. Preparing concrete material Construction of concrete shelter for pumping plant at V28b44 erection of tank. Construction of pill box at E3C04 erecting temporary bars Construction of pill box at E3C04 placing 60% reinforcement. Anchoring material at various posts No1 Coy Wireless Sign Regd attached for work Lewis gunners on anti aircraft.</p>	<p>Weather Fine</p>

D. D. & L., London, E.C.
 (A7883) Wt. W809/M1672 350,000 4/17 Sch. 92a Forms/C/2118/14

WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II. and the Staff Manual respectively. Title pages will be prepared in manuscript.

or INTELLIGENCE SUMMARY.

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
V12699	July 26		<p>B Coy spelling RACQUINGHEM AREA</p> <p>French improvements MERRIS STREET Common TRENCH 38yds trenched. 25yds parapet sandbagged 25yds widened for trench 10yds deepened SUPPORT LINE E5a 66 84yds trenched 84yds duckwalked. 30yds parapet sandbagged 20yds fire step erected 50yds parapet 18" beam 3yds damaged trench repaired. MERRIS STREET CT forward 90 yds trench deepened widened and graded. SUPPORT LINE E5a 55 to W29 d 3.1 80yds deepened widened and graded 50yds parapet levelled. Outer STRAZEELE W28.C 75 100 yds parapet sandbagged Erection and supervising DIVISIONAL BATHS at VII.C.25 Constructing 4 dugouts at W19C 15.70 X19C 37 revelling 10 dugouts cleaning trench deepening and widening trench for trenchment 104yds trench sandbagged Improving support line W30a 35 to W29 d 49 70 33yds trench trenched 64yds anchored back Nucleus garrison maintaining and repairing defence positions of ROUGE ROIX Digging material for concrete pill boxes. Transporting concrete material from CAESTRE SIDINE to various sites. Preparing concrete plant at V28 b 44 plumbing water & casing for tank. Construction of pill box at E3C.07 finishing erecting forms taking preparations for throwing concrete Construction of concrete pill box at E4b 99 placing reinforcements 4 1/2 cubic yds concrete thrown. No Coy 14th Notices Reg attached for diary Lewis gunners engaged on anti aircraft</p>	Weather Misty
V12699	24/		<p>B Coy spelling RACQUINGHEM AREA</p> <p>NEW Common TRENCH E5b 62 to E6c 12 480yds trench excavated average depth 3'6". Erection and supervising structure of DIVISIONAL BATHS at VII.C.25. Construction of concrete O.P. at X19C.05.80 preparing boxing Digging Communication Trench X19C 43 to X25 b 31 900 yds (approx) of trench excavated 3ft top 3ft deep 12ft bottom Nucleus garrison maintaining and repairing defence positions of ROUGE ROIX Transporting concrete material from CAESTRE SIDINE to various sites. Preparing concrete material. Preparing material for concrete work. Construction of concrete shelter at V28 b 44 casing and forms for concrete Shifting to forms and casing placing steel rods in position Construction of concrete pill box at E3.C.07 throwing concrete fixing ceiling April Construction of pill box at E4b 99 18 cubic yards concrete thrown. No Coy 14th Notices Reg attached for work Lewis gun section engaged on anti aircraft Casualties 1 OR wounded</p>	Weather Rainy

WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II, and the Staff Manual respectively. Title pages will be prepared in manuscript.

or INTELLIGENCE SUMMARY.

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
V12699	July 28		<p><u>B Coy resting RACQUINGHEM AREA</u> New C.T. from MERRIS STREET at E 546.2 to NEW SUPPORT LINE at E 6 C 3.5 480 yds now deepened and complete 400 yds new excavation complete to average depth of 3' 6" 25 yds drain excavated. Supervising and erecting Divisional Baths at V 11 C 25. Constructing trench shelters at W 14 C 15.40 4 dugouts completed, salting material. Construction of concrete O.P. at X 19 C 05.80. 2 tons concrete thrown improving SUPPORT LINE W 24 C 4.25 X 19 C 3.7 10 dugouts completed. Cleaning and widening trench and digouts 50 yds trench duckwalked, 30 yds sandbagged. Improving support line W 80 d 3.5 to W 29 d 40.75 65 yds trench sandbagged. Nucleus garrison maintaining and repairing trenches ROUGE CROIX defenses. Transporting concrete material from CHESTRE SIDING to various pits preparing material for concrete work. Construction of concrete pill box at E 3 C 04, 120 yds concrete thrown. Concrete pill box at E 4 6 99 15 cu yds concrete thrown. Construction of concrete shelter for pumping plant at V 28 6 44 Casing and forms for concrete shafting to casing. Joining to engine base putting in position and packing plumbing on water pipe. Not attached for work. Lewis gunners on anti aircraft. 24 reinforcements marched in.</p> <p>CASUALTIES 3 OR. wounded</p>	<p>Weather Showery + Cloudy</p>
V12699	29		<p><u>B Coy resting RACQUINGHEM AREA</u> Construction of trench shelters W 14 C 15.40 4 dugouts complete. Construction of concrete O.P. at X 19 C 05.80 5/2 tons concrete thrown reinforcing and boxing. unloading material. Improving support line W 24 C 4.25 X 19 C 3.7 9 dugouts completed. Cleaning and widening trenches unloading and carrying material 25 yds trench revetted W 30 d 3.5 to W 29 d 40.45 Nucleus garrison maintaining and repairing trenches in Defense position of ROUGE CROIX. Transporting concrete material to various pits from CHESTRE SIDING. Construction of concrete pill box at E 3 C 04 120 yds concrete thrown. Construction of concrete shelter for pumping plant at V 28 6 44: Shoring up and strutting to casing. Casing for engine base 20 yds concrete thrown for engine base and floor of engine room. Jacking iron base. Laying iron base in position salvaging material. MERRIS STREET C.T. E 5 a 16 to E 5 a 24 Trench improvements and 10 dugouts 45 yds new trench excavated average depth 3' 6" 3 infantry dugouts excavated and constructed. Trench improvements SUPPORT LINE E 5 a 55 to E 5 a 25.80 40 yds trench revetted 44 yds duckwalked 8 yds first step section 40 yds parapet sandbagged 36 yds parapet 18" berm. New C.T. from MERRIS STREET at E 546.2 to NEW SUPPORT LINE at E 6 C 3.5 150 yds trench deepened widened and graded. SUPPORT LINE E 5 a 55 to E 5 a 25.80 40 yds trench deepened widened graded and ready for treatment. 40 yds drain deepened and cleaned. OUTER STRAZELLE LINE W 28 C 4.5 60 yds widened and drained. 400 sandbags filled and laid in parapet. Supervising and erection of Divisional Bath at V 11 C 25. Not attached for work. Lewis gunners on anti aircraft.</p> <p>CASUALTIES 3 OR. wounded</p>	<p>Weather Fine</p>

(A. 883) W. 1809/M192 350,000 4/17 Sch. 52a Forms/C/2118/14

WAR DIARY

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II, and the Staff Manual respectively. Title pages will be prepared in manuscript.

INTELLIGENCE SUMMARY.

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
V12 699	July 30		<p><u>B Coy resting RACQUINGHEM AREA</u> Construction of trench shelters at W14C.15.40. 5 dugouts completed. Construction of concrete O.P. at X19C.05.80 6 tons concrete thrown through 8 barrels cement 96 bags found 192 bags stone used. Improving SUPPORT LINE W24C.42 to X19C.34 4 dugouts completed. 90 yds duckwalk laid 50 yds trench sandbagged 40 yds anchored back 200 yds excavation. Improving communication trench X19C.43 to X25C.31. 60 yds trench deepened, widened and graded. Carrying material for improvements to support line W30A.35 to W29D.40.75. Maintaining and repairing the defended localities of ROUGE CRUX. Preparing salvaged iron rods for reinforcing. Construction of concrete shelter for pumping station at V28C.44. Placing steel rods in position and packing same. 30 yds concrete thrown through casing to concrete. Construction of concrete pill box at E3C.07 9 yds concrete thrown from trench to grid. Laying floors. Construction of pill box at E4C.99 18 yds concrete thrown from CASTRE SIDING to various pits. MERRIS STREET E5A.16 to E5A.24. 75 yds trench excavated depth 3'6". E5A.55 to E5C.25.50 25 yds trench revetted 40 yds duckwalk 60 yds parapet 18" berm 50 yds sandbagged levelled 14 yds sandbagged. New Comm trench from E5C.2 to E6C.3-5. 100 yds trench deepened and graded 8 yds drain excavated. OUTER STRAZEELE LINE W28C.7.5 25 yds trench widened + graded 25 yds parapet 25 yds parapet sandbagged 70 yds trench deepened and graded 90 yds duckwalk. SUPPORT LINE 60 yds trench deepened and graded 90 yds duckwalk. Superintending erection of Doreward baths at V11C.25. No.1 Coy with Worcester Regiment resume duty with their unit. 10 Reinforcements march in Lewis Gunners on anti aircraft 1 officer and 4 NCOs proceed to Pioneer Sq Bn 10R killed 10R wounded</p>	Weather fine
V12 699	July 31		<p><u>B Coy resting RACQUINGHEM AREA</u> Construction of trench shelters at W14C.15.40 4 dugouts semi complete. Construction of concrete O.P. at X19C.05.80 9 tons concrete thrown through 11/2 load dug material. Improving support line W24C.42 to X19C.34 7 large dugouts completed 60 yds duckwalk 30 yds parapet sandbagged 50 yds anchored back 100 yds excavation. W30A.35 to W29D.40.75 25 yds trench revetted 35 yds anchored back. Improving CT X19C.43 to X25C.31 30 yds trench deepened widened + graded trench improvements to E5A.16 to E5A.24 MERRIS STREET 30 yds trench widened for recruitment. 20 yds trench widened for recruitment 20 yds deepened 35 yds parapet levelled 20 yds sandbagged 20 yds deepened widened and graded E5A.55 to E5C.25.50 11 yds duckwalk 36 yds parapet 50 yds parapet 50 yds parapet 18" berm 30 yds sandbagged 10 yds parapet levelled. MERRIS ST forward 60 yds deepened widened + graded 65 yds drain excavated. Erection + superintending erection of Div Baths at V11C.25. Maintaining and repairing trenches held defended localities of ROUGE CRUX. Preparing iron rods for reinforcing transporting concrete material from CASTRE SIDING to various pits. Constn of concrete shelter for pumping plant. 12 yds concrete thrown. Placing steel rods in position and packing same. Stalling to casing. Construction of concrete pill box at E3C.07 12 yds concrete thrown. Construction of concrete pill box at E4C.99 12 yds concrete thrown. Lewis Gunners on anti aircraft.</p>	Weather fine

WAR DIARY
or
INTELLIGENCE SUMMARY.

Army Form C. 2118.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II, and the Staff Manual respectively. Title pages will be prepared in manuscript.

(Erase heading not required.)

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
			Location V 12 b 99 Sheet 2nd	
			MONTH OF JULY 1918	
			Strength as at 1/4/18 42 officers 1243 other ranks	
			Strength as at 31/4/18 41 officers 1261 other ranks	
			Killed in action 4 other ranks	
			Evacuated Wounded 28 other ranks	
			Evacuated to Hospital (Fick) 28 other ranks	
			Taken on Strength of Unit 13 other ranks	
			Returned from Hospital 40 other ranks	
			<u>Died of Wounds</u> <u>1</u> <u>other rank</u>	

WAR DIARY

43
 1ST OF
 1ST AVIATION PIONEER BN

FOR
 July 1918

LIST OF APPENDICES.

- | No. | Subject. |
|------|---|
| 1 | Plan showing work for month of July. |
| 2 | Plan of Reinforced concrete shelter at E3 b. 30.50 |
| 3 | Plan of Reinforced concrete shelter at E3 c 04. |
| ✓ 4 | " " " " O.P. at X19c.05.80 |
| 5 | " " " " shelter at V28 b 44 |
| ✓ 6 | Weekly work Reports of Coys for month of July |
| ✓ 7 | Distribution of work for No 1 Coy 14 th Worcester Regiment |
| ✓ 8 | Notification of Attached American Personnel |
| ✓ 9 | Movement, Order for B Coy |
| ✓ 10 | Bill of Quantities of steel rods for concrete shelter at V28 b 44. |
| ✓ 11 | Defence scheme No 4. |
| ✓ 12 | Report of French Prime Minister of a visit to Australian Troops |

I

PLAN
 SHEWING WORK CARRIED OUT BY
 1ST PIONEER BATTALION A.I.F.
 FOR MONTH ENDING 31ST JULY 1918 SHEWN BLUE

SCALE 1:20000



APPENDIX

43

15

16

APPENDIX
BILL OF QUANTITIES OF MATERIALS
Required in the erection of Reinforced Concrete Shelters
for 1st Australian Machine Gun Battalion.

43

"A" & "C" TYPES:- Two loopholes each.

	Cubic feet.
<u>Flooring:-</u> Main floor 15' x 13'3" x 1'6".	298.05
<u>Walling:-</u> Right Flank 15' x 3' x 4')	360.00
Left Flank 15' x 3' x 4')	
<u>Door openings:-</u> Right Jamb 3' x 2'6" x 4')	60.00
Left Jamb 3' x 2'6" x 4')	
<u>Springing Courses:-</u> Both sides 3' x 1.61' x 15'	72.45
<u>Gable:-</u> Up to 4' high 7'3" x 3' x 4'	87.00
" Segment 10.5 sq. feet x 3'	31.50
<u>Roof:-</u> Main arch 42 sq. feet x 15'	630.00
Table 2'3" x 7'3" x 6"	8.00
<u>Porch:-</u>	
<u>Flooring:-</u> Floor 12'3" x 7'6" x 1'6" + (2.82) cub.ft. for recess.	140.62
<u>Walling</u> right flank 5' x 2' x 6')	159.00
Left flank 5'6" x 3' x 6')	
End wall 10'3" x 2' x 6'	123.00
<u>Roofing</u> Flat roof 11'6" x 1'6" x 7'6"	129.37
Table 7' x 2'3" x 6"	7.87
Corbal,	1.75
	2108.61
Deduct for end loopholes 17.60 cub. feet	
Deduct for porch " 18.77 " "	36.37
36.37	2072.24

Cub. content:-

"A" & "C" TYPES:- 2072.24 cub. feet = 119.73 tons.
 Proportion 1 : 2 : 4. = 112.00 barrels cement.
 33.77 cub. yards sand,
 68.30 cub. yards aggt.

"B" TYPE :- Single loophole.

	Cubic feet.
<u>Flooring:-</u> Main floor 15' x 13'3" x 1'6"	298.05
<u>Walling:-</u> Right flank 15' x 3' x 4')	360.00
Left flank 15' x 3' x 4')	
<u>Door openings:-</u> Right jamb 3' x 2'6" x 4')	60.00
Left jamb 3' x 2'6" x 4')	
<u>Springing courses:-</u> Both sides 3' x 1.61' x 15'	72.45
<u>Gable:-</u> Up to 4' high 7'3" x 3' x 4'	87.00
" Segment 10.5 sq. feet x 3'	31.50
<u>Roof</u> Main arch 42 sq. feet x 15'	630.00
Table 2'3" x 7'3" x 6".	8.00
	1547.00
Deduct for loophole,	17.60
	1529.40

Cub. content of "B" TYPE:- 1529.40 cub. feet = 88.35 tons.
 Proportion = 1 : 2 : 4. = 82.79 barrels cement.
 24.92 cub. yards sand,
 50.40 cub. yards aggt.

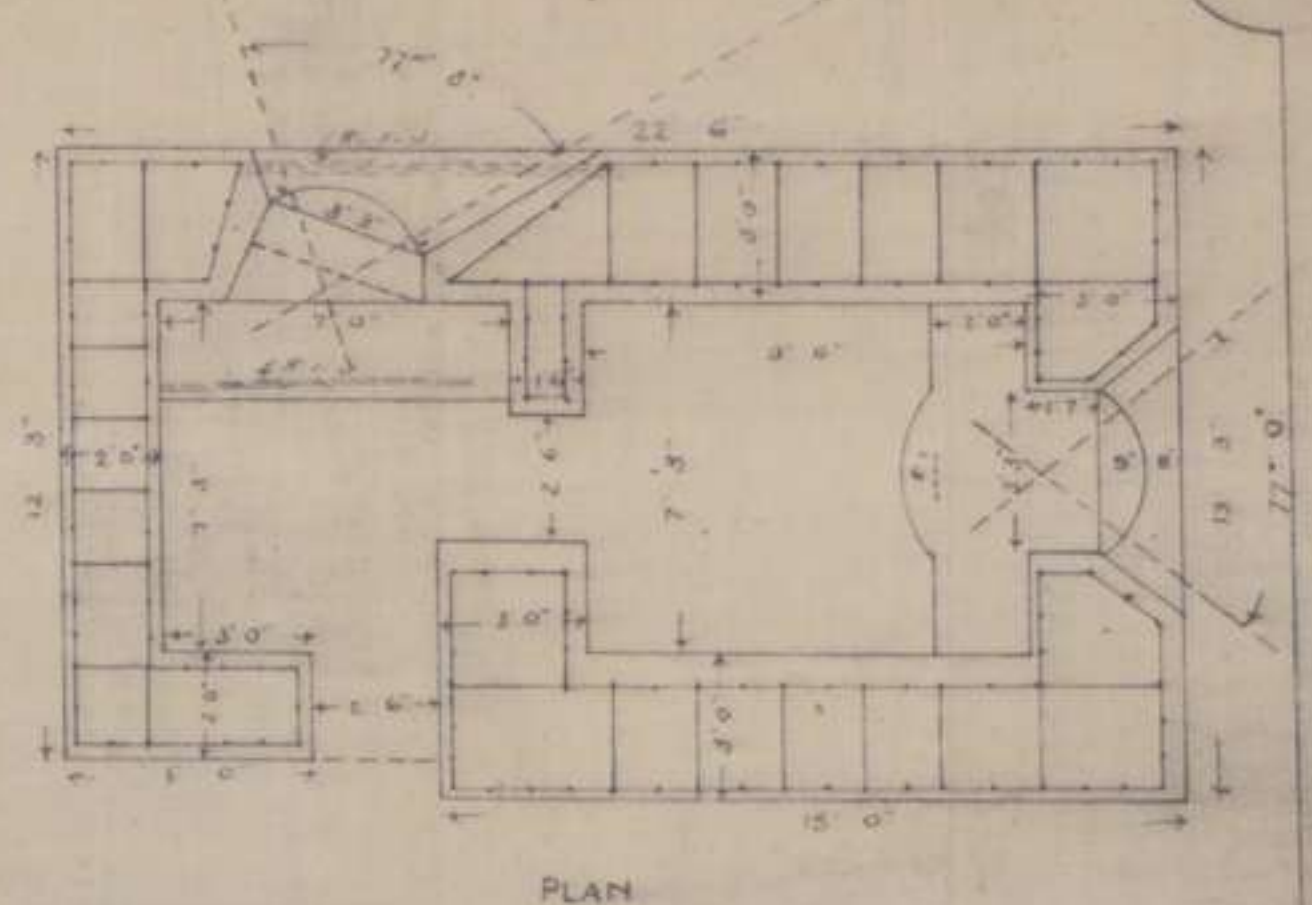
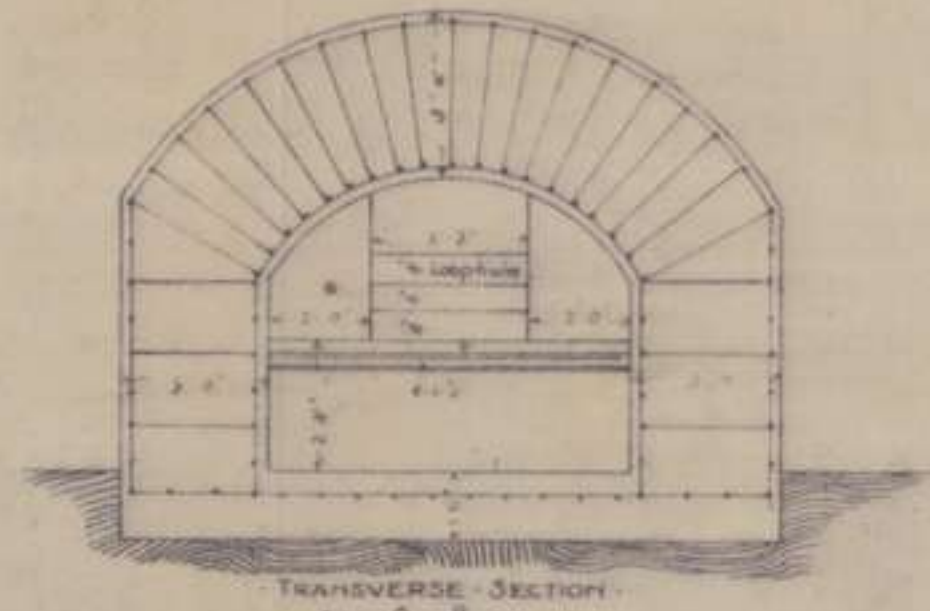
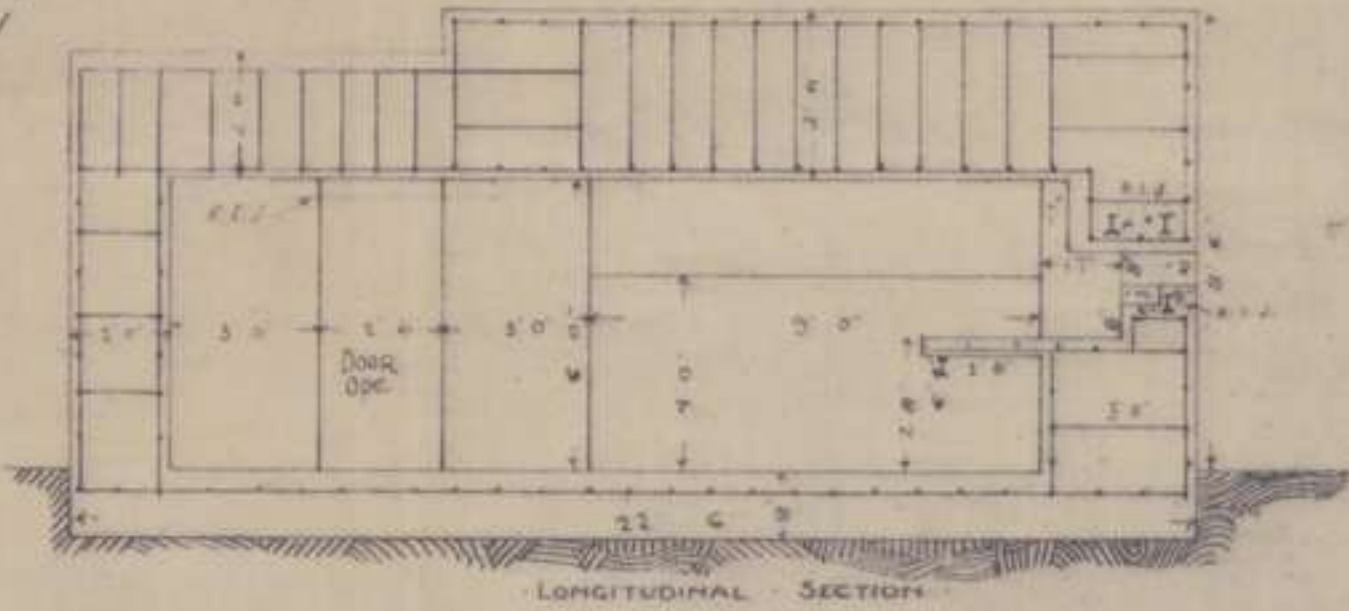
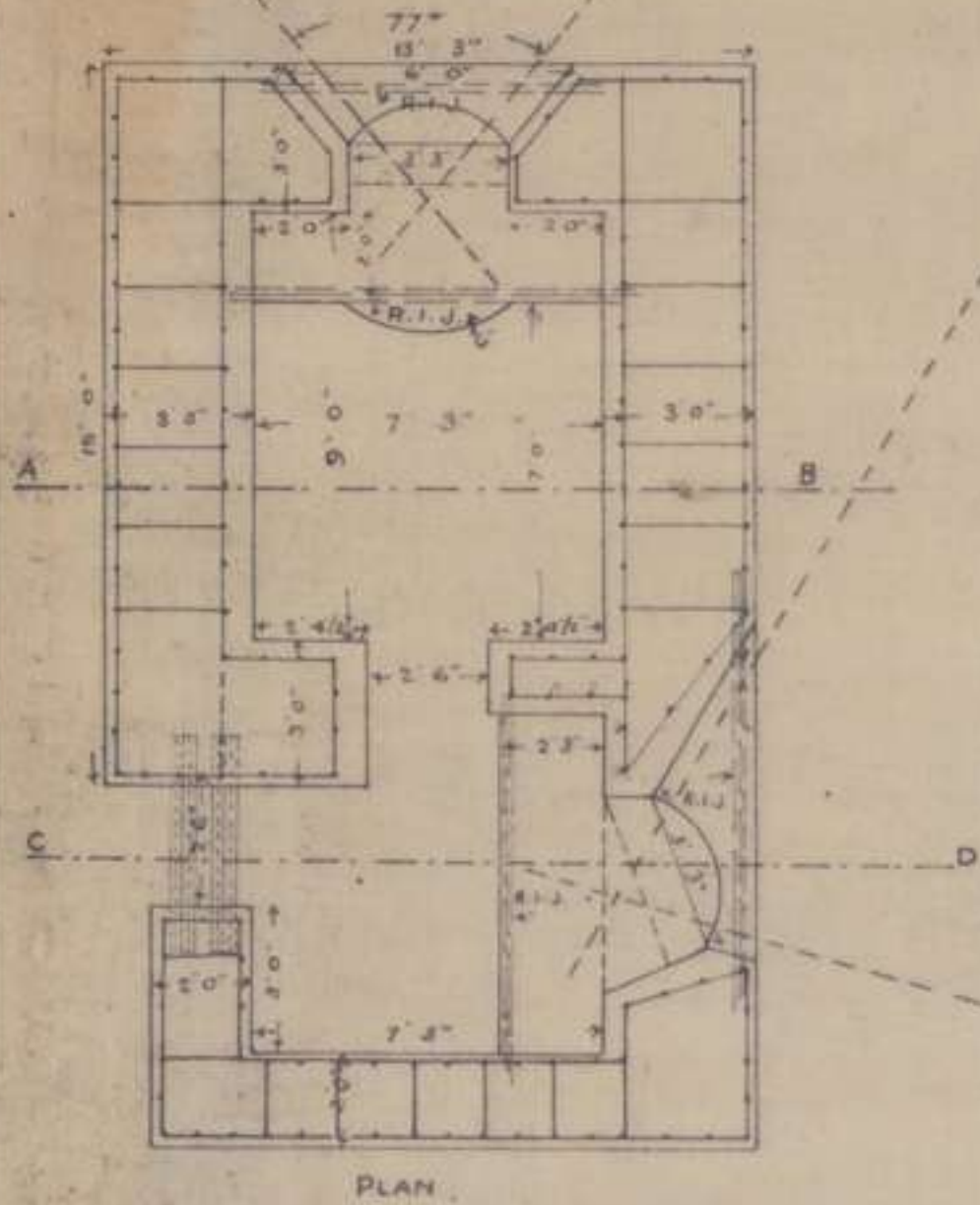
Iron rods will be cut in accordance with the figured dimensions shown on the accompanying drawings.

W. B. B. B. B. Captain.

Survey Office,
 1st Aust. Pioneer Bn., 1st Aust. Division.
 20th June, 1918.

TYPE "A". at E3b. 30. 50.

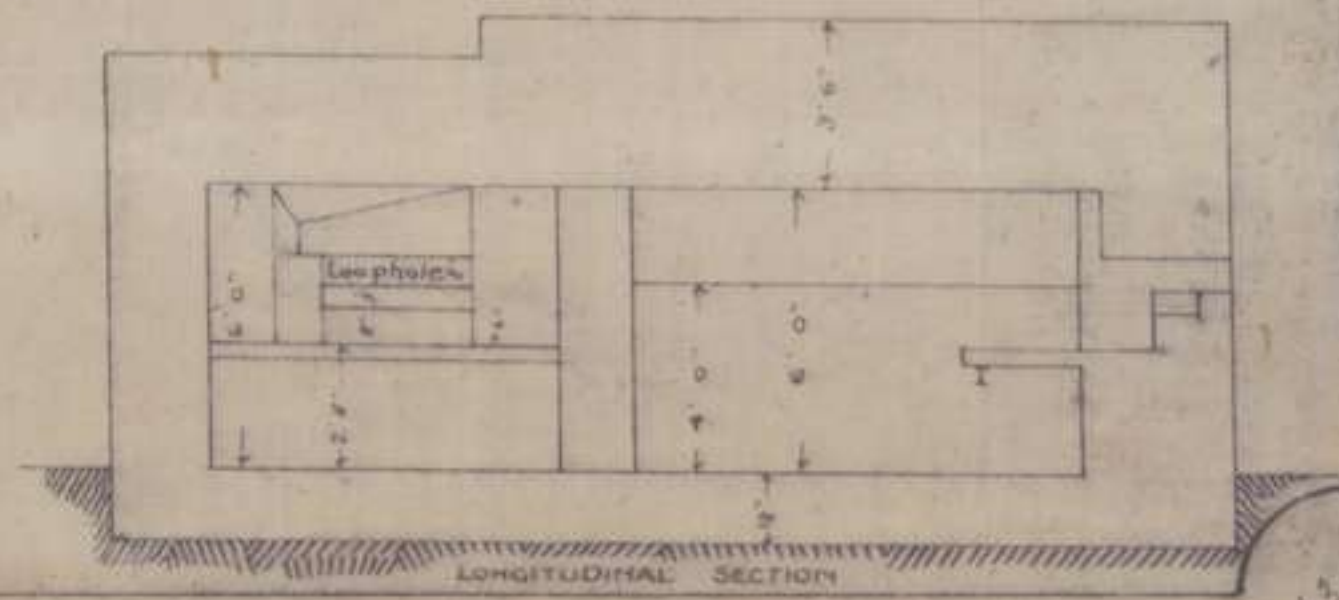
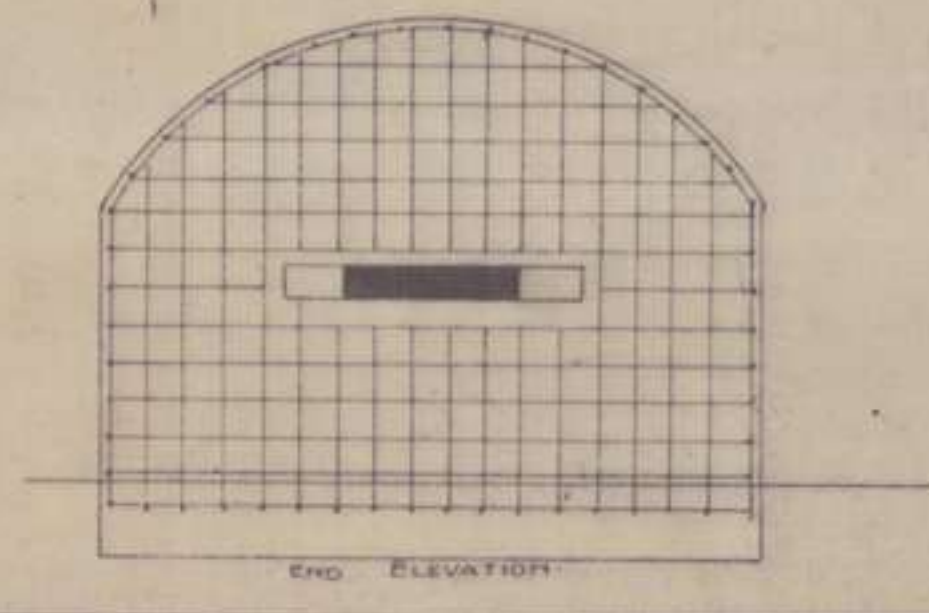
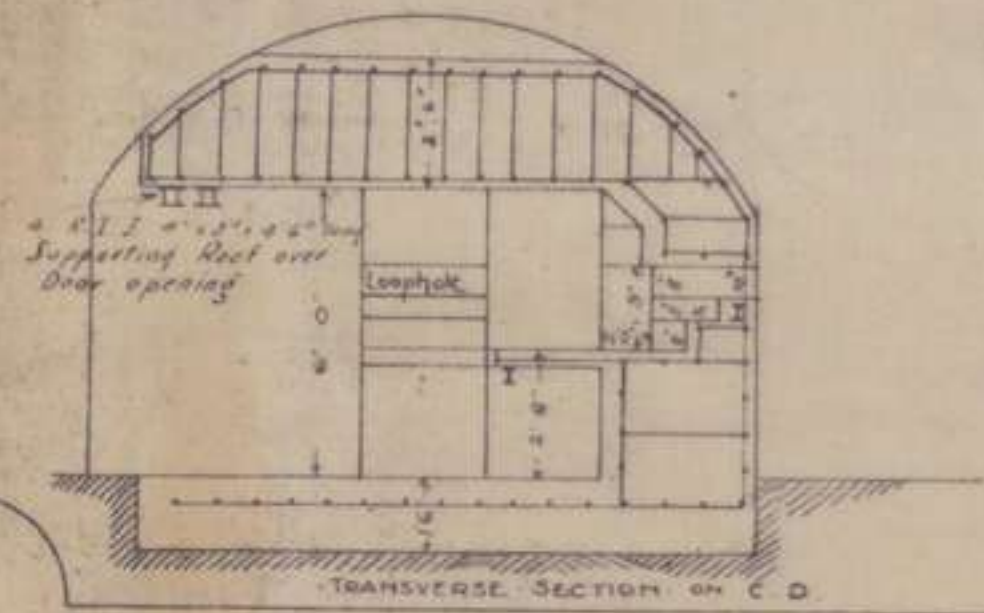
2
12



PROPOSED REINFORCED CONCRETE SHELTERS
 FOR
1ST AUSTRALIAN M.G. BATTALION.

SCALE 1/8 INCH TO 1 FOOT.

TYPE "C".
 PLAN OF SHELTER at W. 26. d 25. 60.
 ELEVATIONS & SECTIONS OF "A" TYPE APPLY TO THIS PLAN.

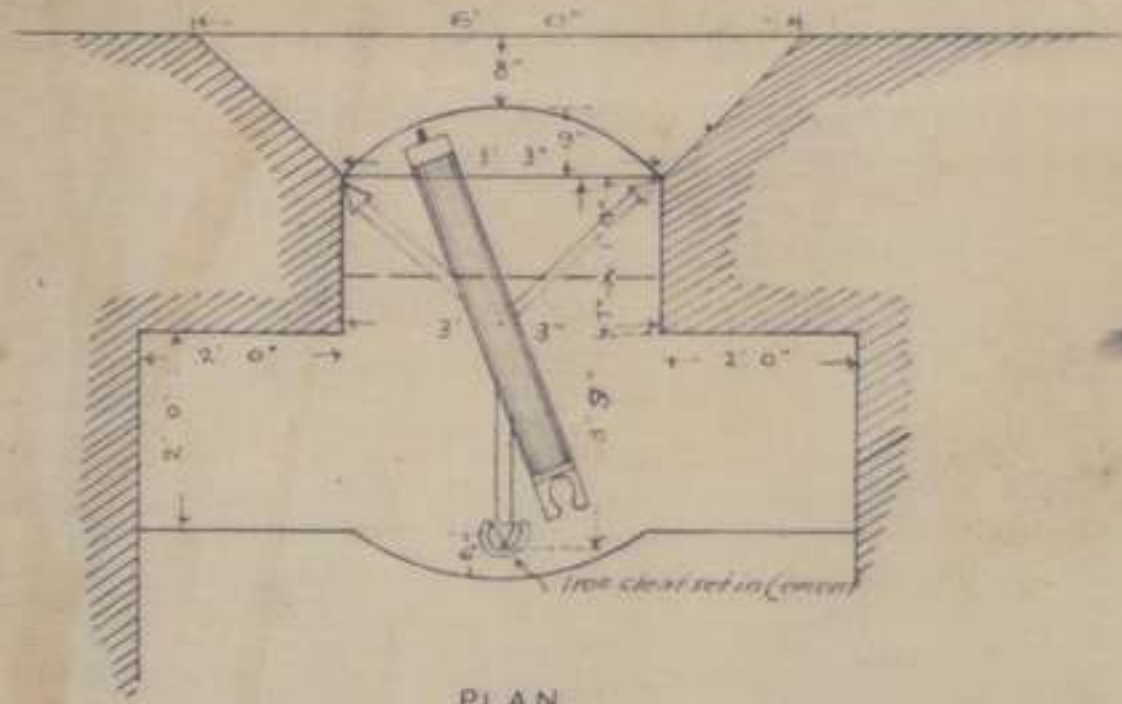


Drawn by: 1st Australian Battalion, A.I.F.

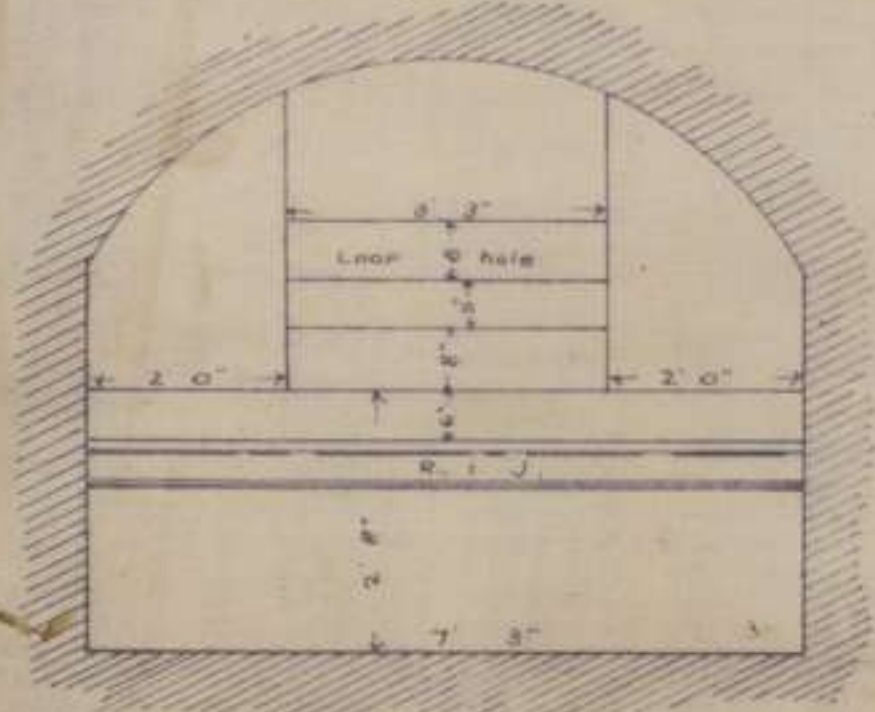
DETAILS OF LOOPHOLES TO SHELTERS.

TYPES A and C.

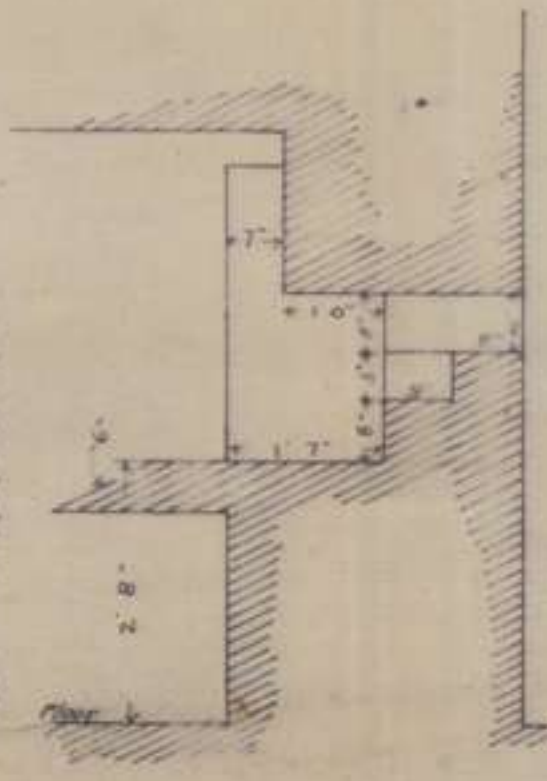
Scale 4" to one inch.



PLAN

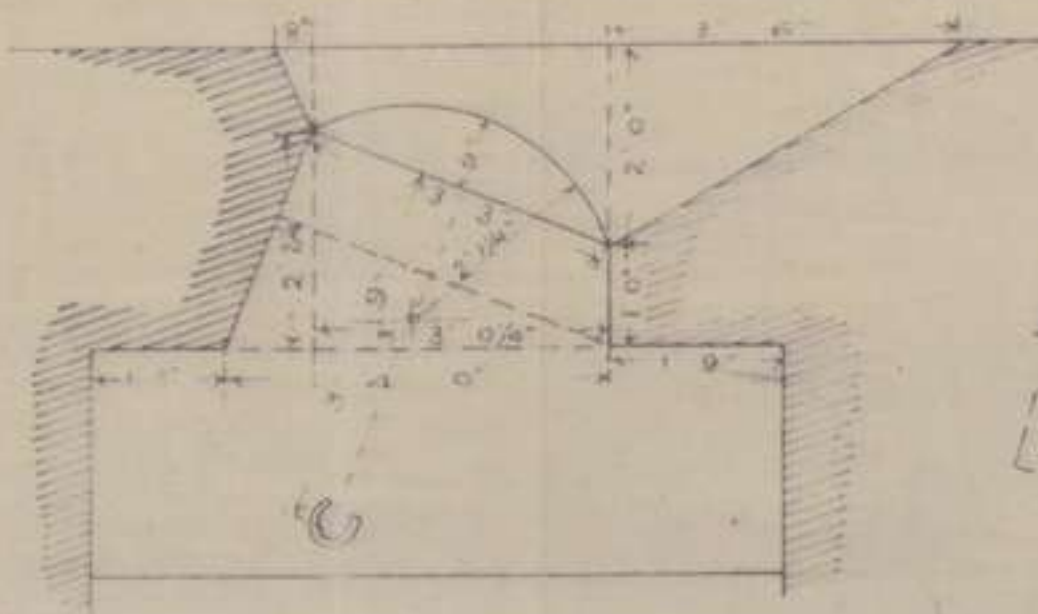


ELEVATION

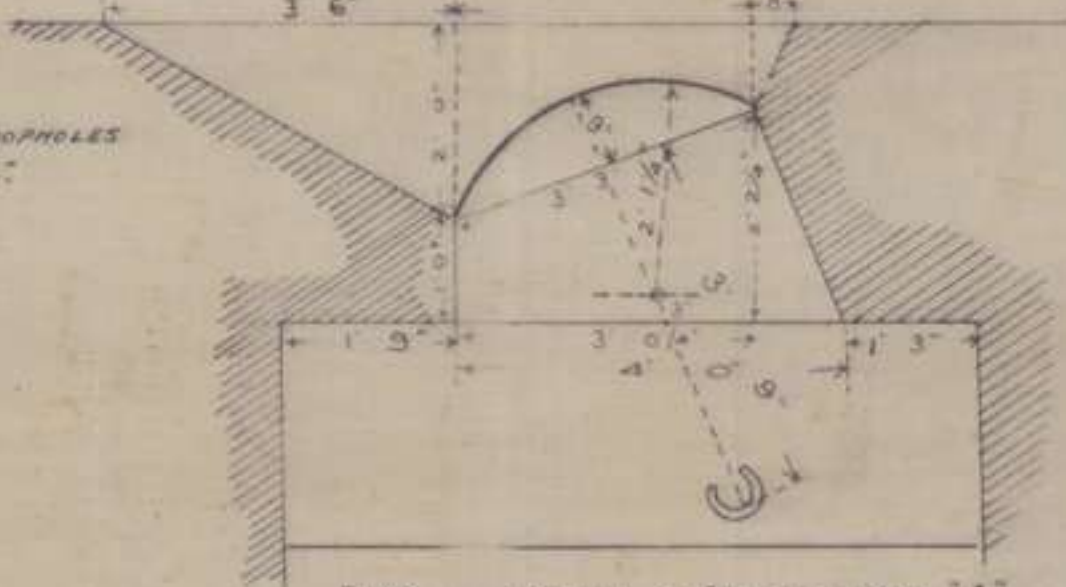


SECTION

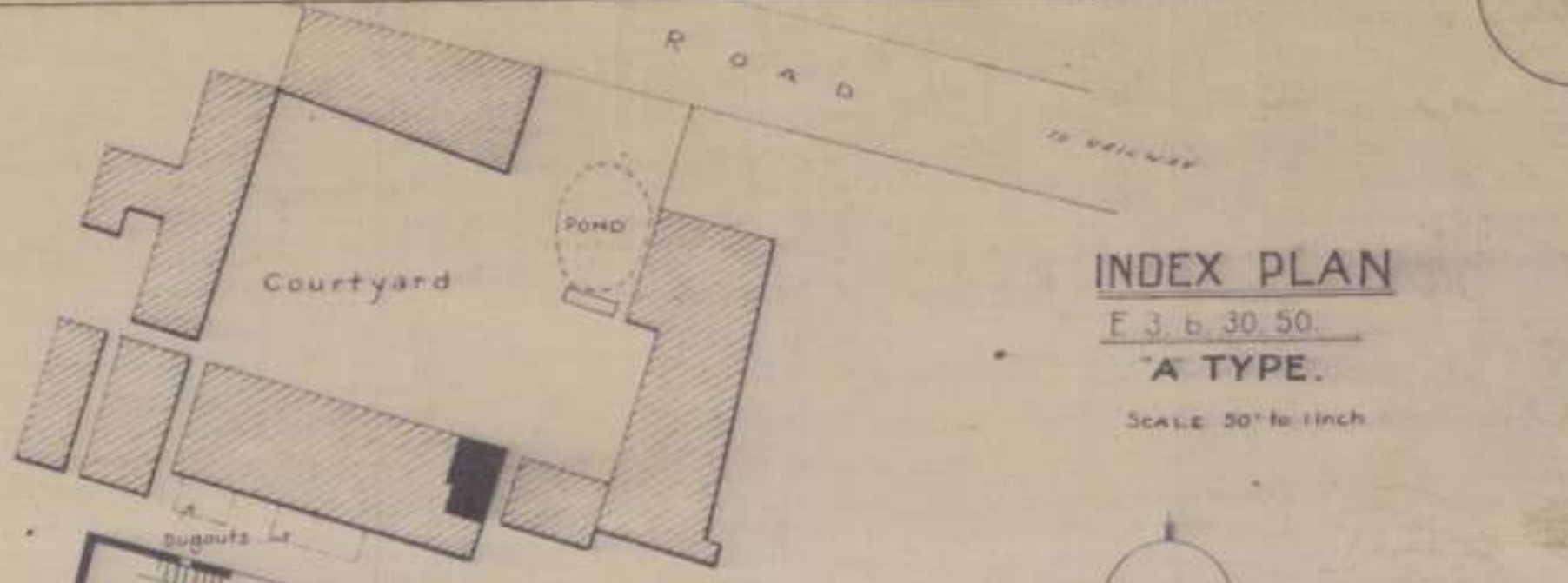
THIS SECTION APPLIES TO LOOPHOLES IN SHELTERS TYPES "A" & "C".



PLAN OF LOOPHOLE TO SHELTER TYPE "C".



PLAN OF LOOPHOLE TO SHELTER TYPE "A".



INDEX PLAN

E 3, b, 30 50.

"A" TYPE.

SCALE 50" to 1 inch



Brick Building 1 1/2' to Eaves. Tiled Roof. 30' 0" - Ridge. Floor to Loft is formed of Brick segmental Arches about 2' 0" span carried on R.I.Us. Door and window apes marked a, to be rendered light proof, blankets stretched on framing behind apes would do. Great care must be taken in preserving the appearance of the existing buildings, as they are under direct observation. SCALE 16" to 1 inch.



INDEX PLAN.

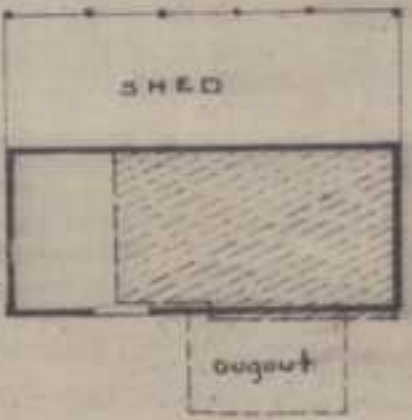
W 26, d 25 60.

"C" TYPE.

SCALE 50" to 1 inch



Barn - Thatched roof. Shud & Plaster walls. Eaves 6' 8" Ridge 18' 8". The rear wall to be removed and roof carried on supports until shelter is complete. When the whole structure may be demolished & left as a screen to the new work. SCALE 16" to 1 inch.



SHED

DUGOUT

Survey Office 143 Pioneer Battalion A.C.F.

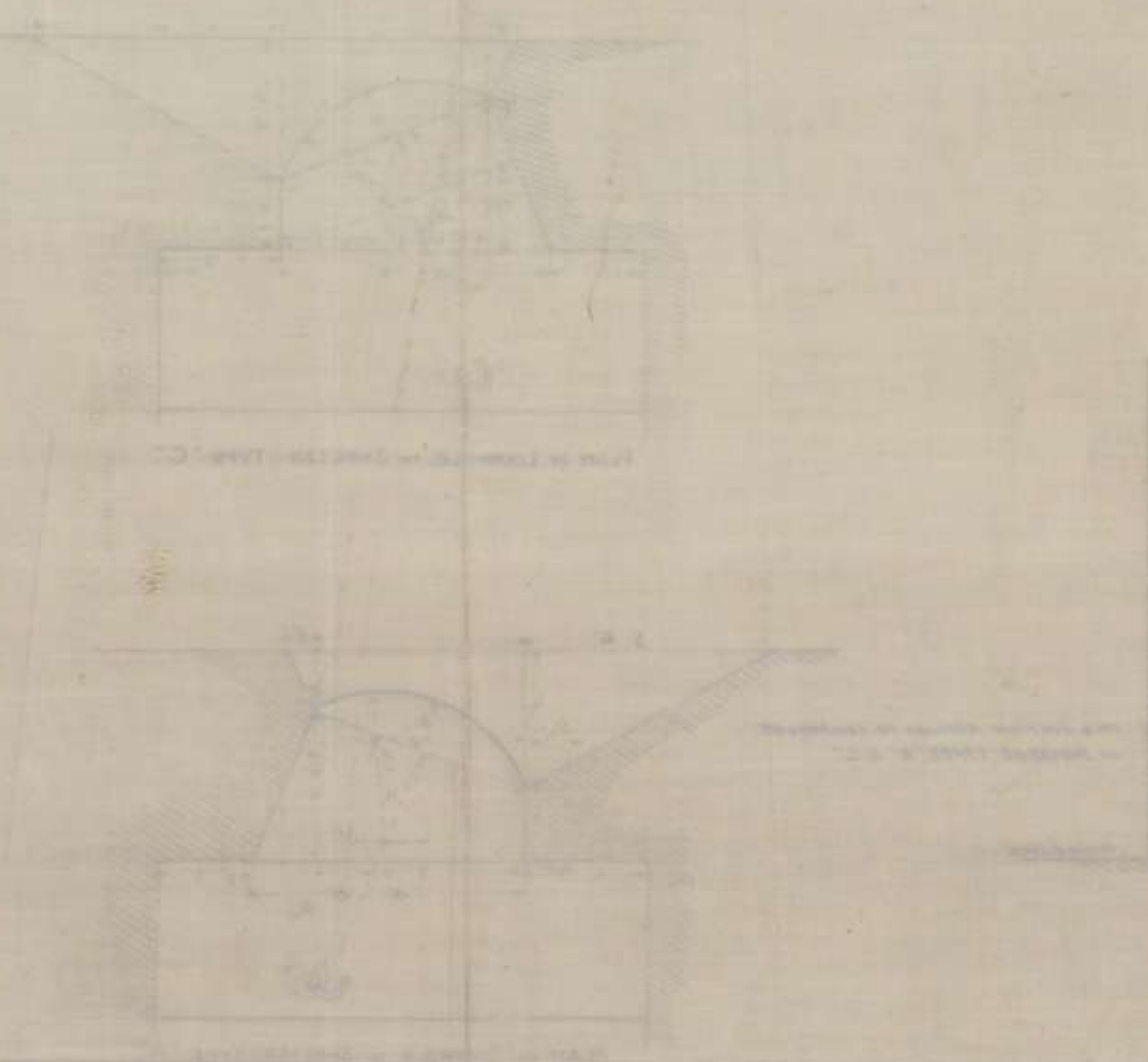
INDEX PLAN
TYPE A



INDEX PLAN
TYPE B



INDEX PLAN
TYPE C

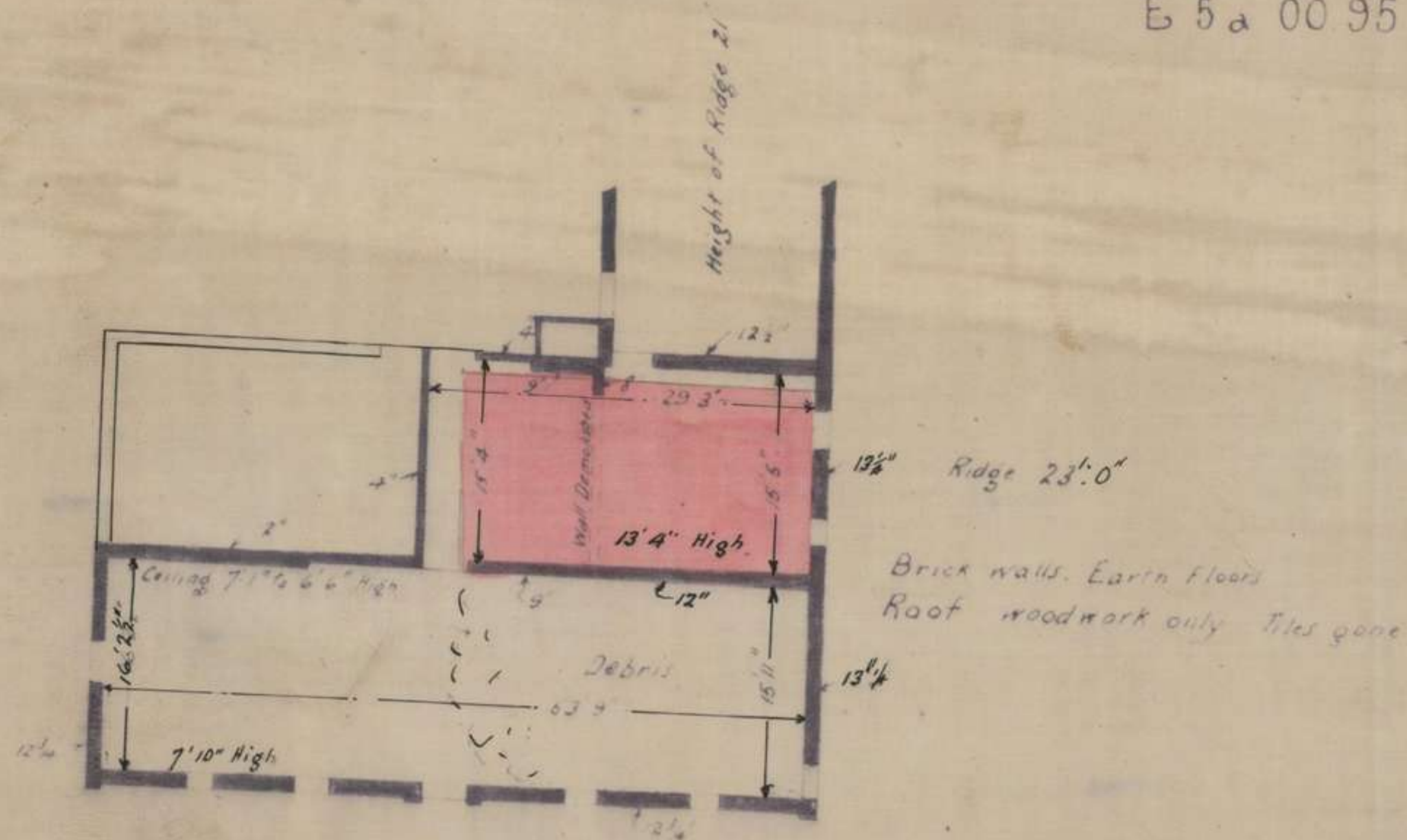


43

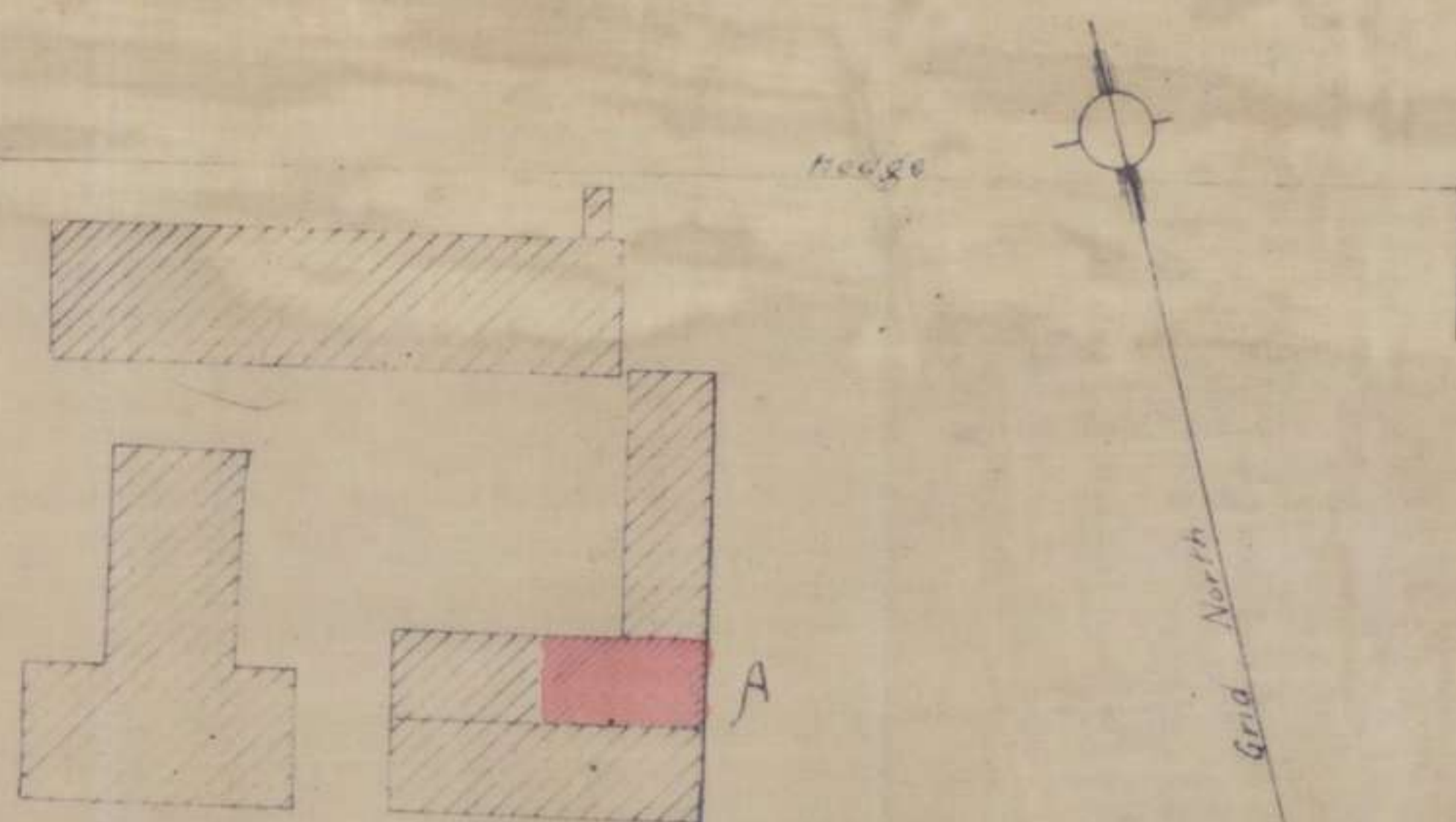
43

21

Site of
Reinforced Concrete Shelter for B.H.Q.
E 5^{at} 00 95



Detail at A
Scale 16'-1"



Scale 50'-1"

APPENDIX 3

3

43

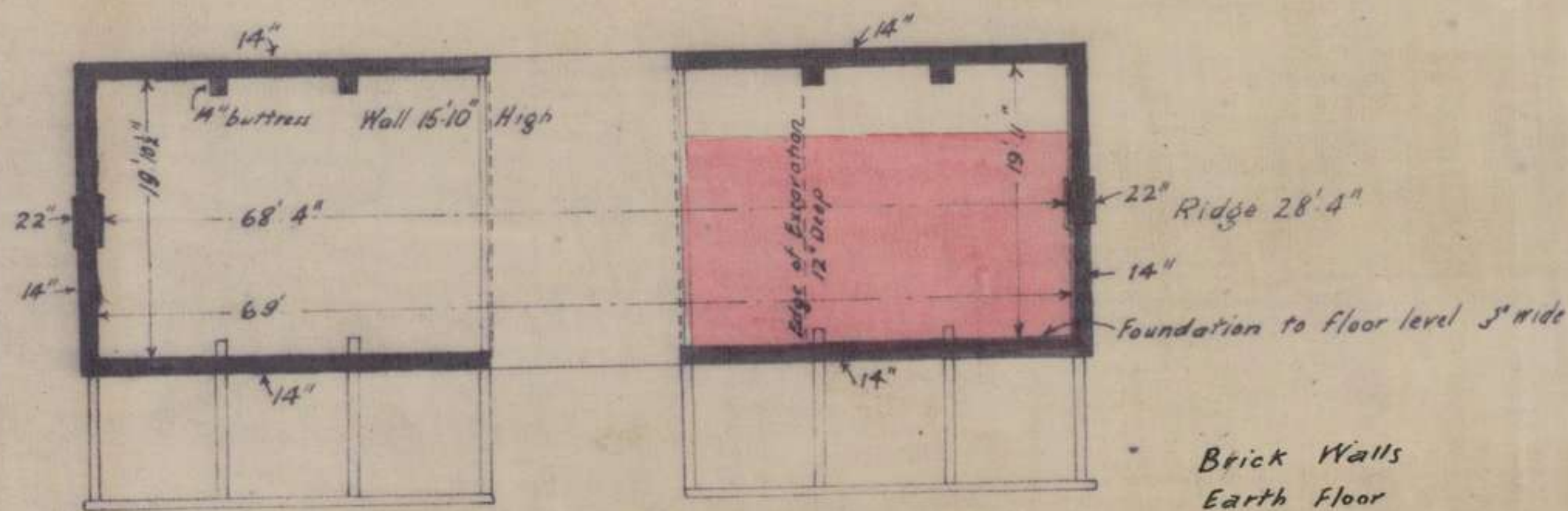
22

43

22

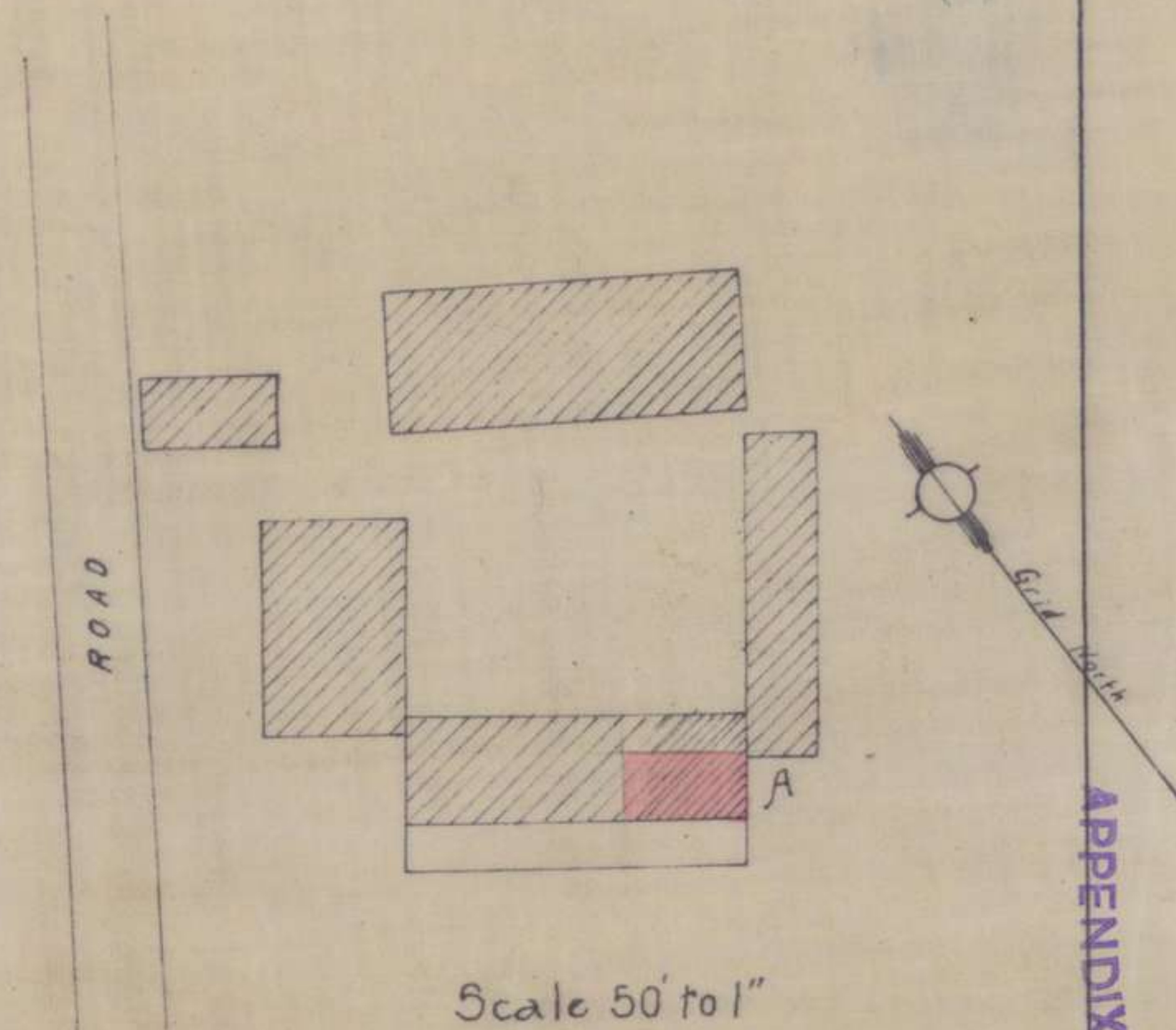
Site of
Reinforced Concrete Shelter
for
B.H.Q. Curfew House E.3.c.00.70.

3



Detail at A
Scale 16' to 1"

Brick Walls
Earth Floor
Tiled Roof

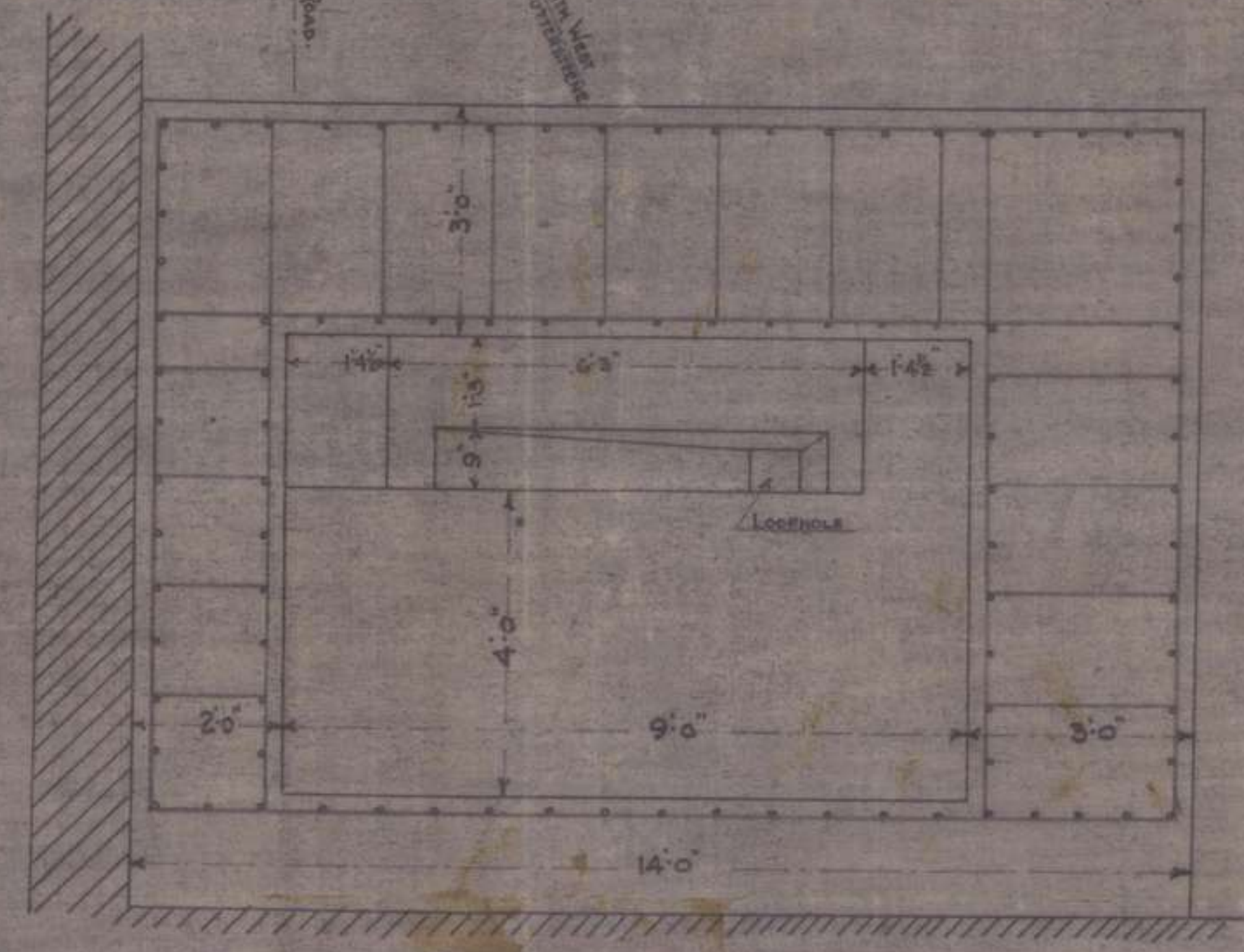
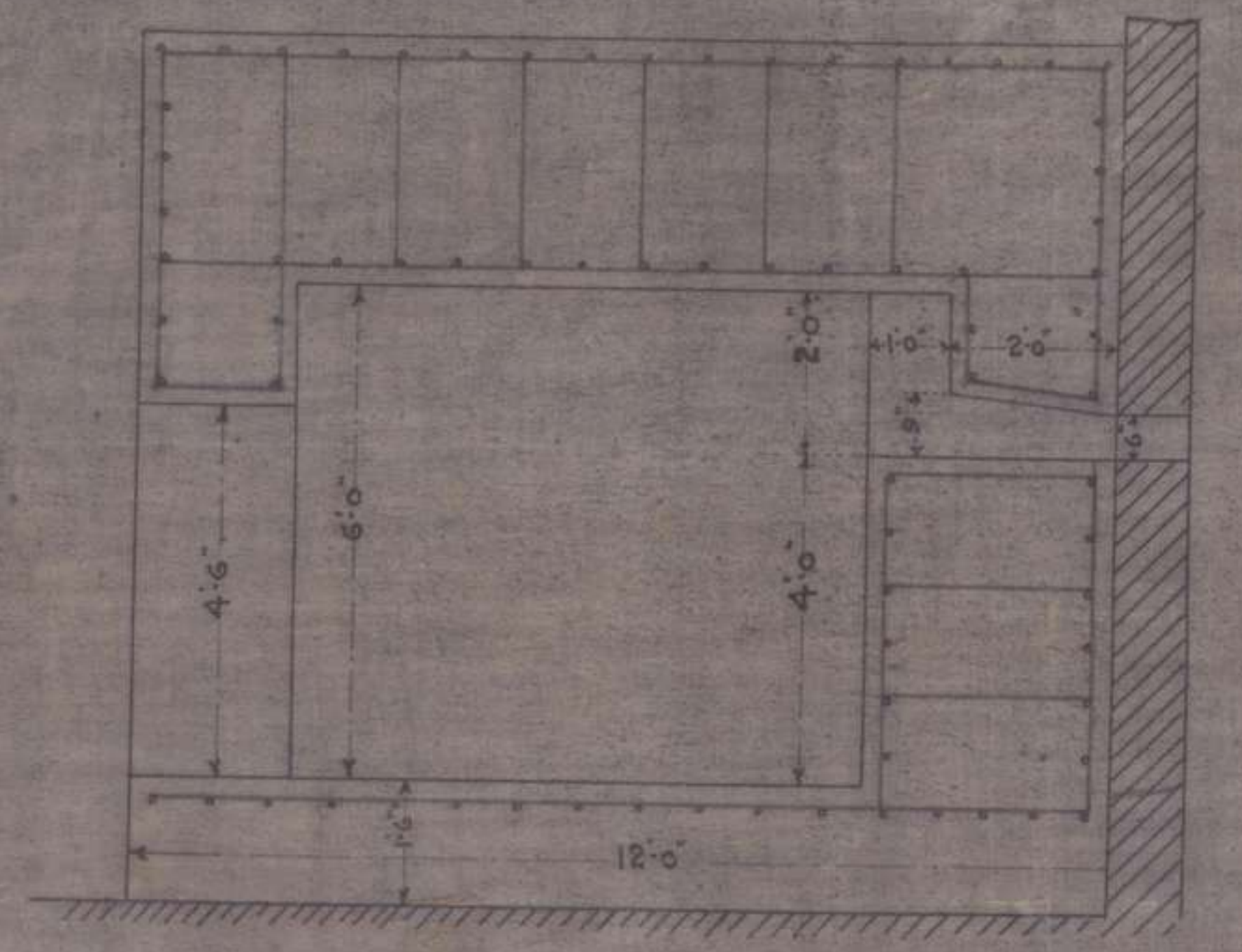
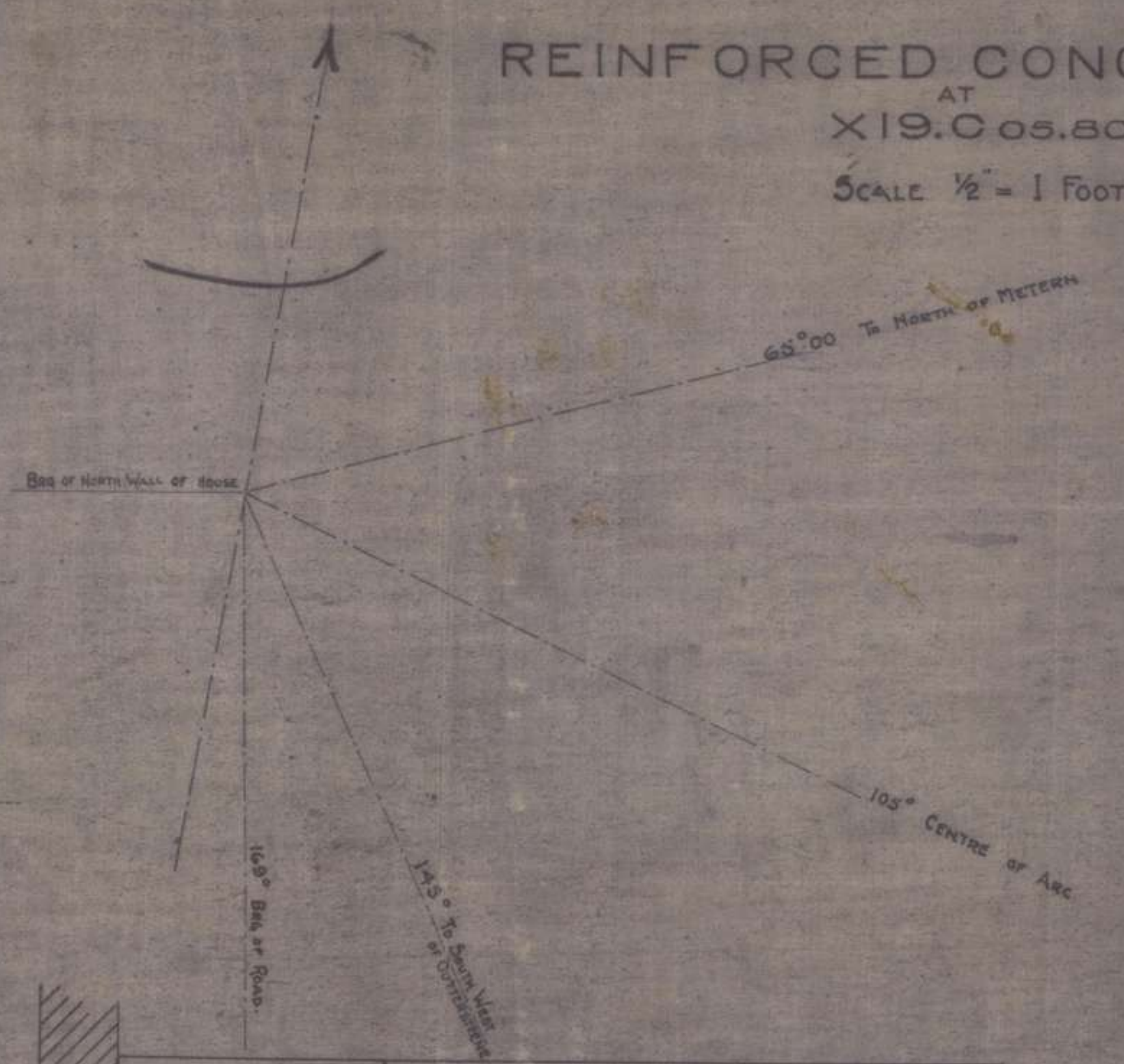
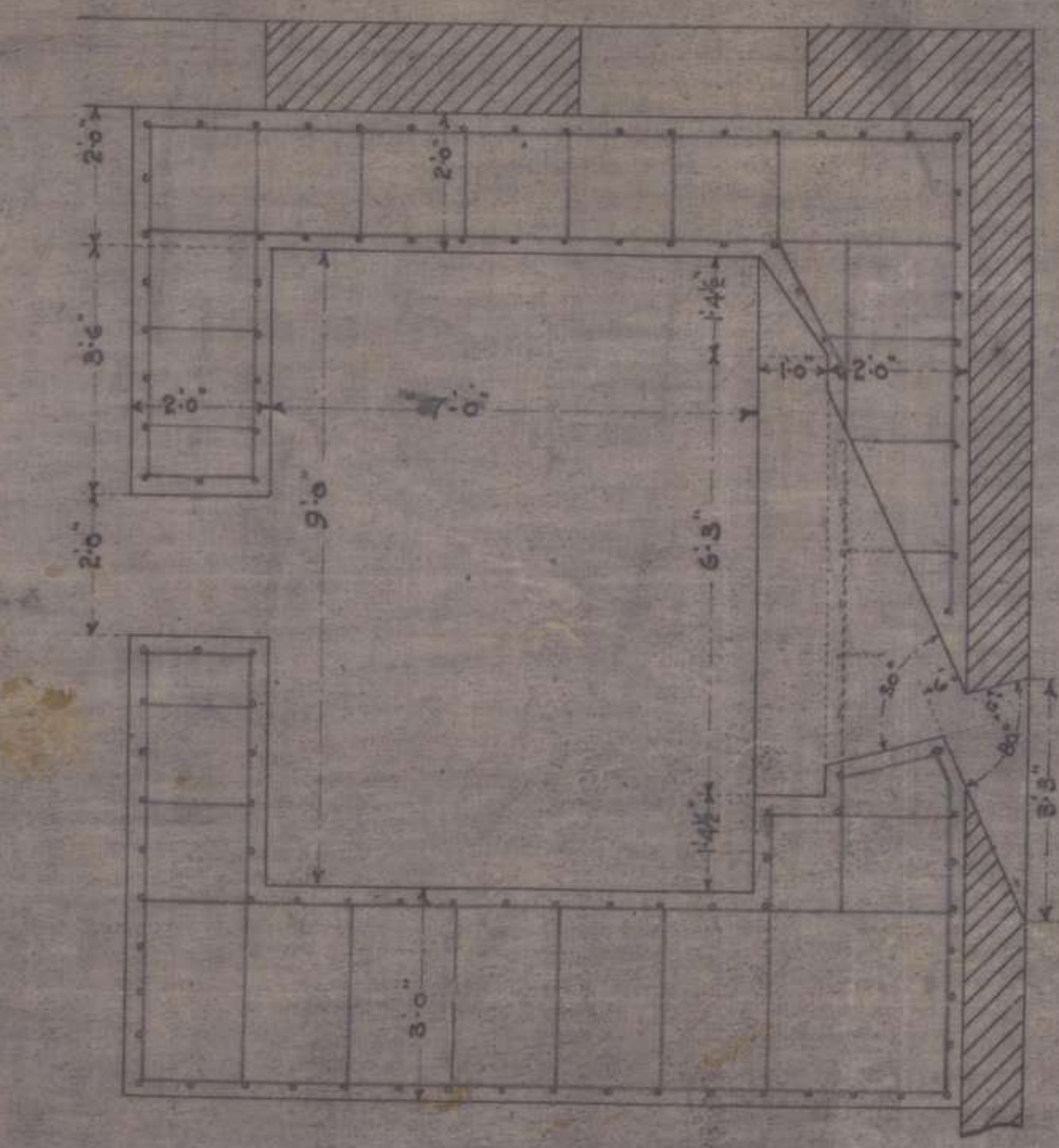


Scale 50' to 1"

APPENDIX 3

APPENDIX 4

REINFORCED CONCRETE O.P.
AT
X19.C 05.80.
SCALE 1/2" = 1 FOOT.



SURVEY OFFICE 1st Pioneer BATT. A.I.F.

BILL OF QUANTITIES
of materials required in
connection with the erection
of a Reinforced Concrete
pumping station at
V.28.b.4.4.
for C.R.E., 1st Aust. Div.
in accordance with the
accompanying plans prepared
at -

Survey Office,
1st Pioneer Batta.,
1st Aust. Div.

W. Bandy Captain.

31 day of July, 1918.

48

APPENDIX
5

205

43

BILL OF QUANTITIES OF MATERIALS
REQUIRED IN CONNECTION WITH THE ERECTION OF REINFORCED
CONCRETE PUMPING STATION at V.S.S.D. 4.4.

For C.R.A., 1st Aust. Division.

Item.	Class.	Dimensions.	Length of Rods.	Remarks.
12	A	15'11"	15'9"	Rear wall hor. bars below top of door (pump end).
15	B	14'11"	15'9"	Rear wall hor. bars above top of door (pump end).
24	"	14'11"	15'9"	Roof horizontal bars (pump end).
19	C	14'10"	15'9"	Front wall longitudinal bars (pump end)
19	D	14'6"	15'3"	Front wall longitudinal bars (engine end).
7	E	14'5"	15'3"	Rear wall hor. bars above top of door (engine end).
10	"	14'5"	15'3"	Roof longitudinal bars (engine end)
8	F	14'4"	15'3"	Rear wall hor. bars below top of door (pump end).
36	G	14'2"	15'0"	Rear wall vertical bars (pump end).
28	"	14'2"	15'0"	Front wall vertical bars (pump end).
4	"	14'2"	15'0"	Buttress vertical bars.
23	"	14'2"	15'0"	End walls vertical bars (pump end).
6	H	13'5"	14'3"	Rear wall above top of door (pump end)
14	"	13'5"	14'3"	Front wall longitudinal (pump end).
21	I	12'6"	13'6"	Floor longitudinal (pump end).
41	J	12'8"	13'6"	Floor transverse rear of footing course, outer edge front wall.
58	K	12'0"	12'9"	Floor longitudinal edge of pump bed to edge of burst.
10	L	11'9"	12'6"	Wall, pump end. Vertical bars.
2	"	11'9"	12'6"	Rear wall longitudinal bars above door (engine end).
14	"	11'9"	12'6"	Rear wall vertical bars (pump end).
14	"	11'9"	12'6"	Front wall vertical bars (pump end).
6	"	11'9"	12'6"	Buttress vertical bars.
10	M	11'10"	12'9"	Front wall longitudinal bars (engine end).
68	N	11'8"	12'9"	Roof transverse bars.
45	N	11'8"	12'9"	Walls (end) horizontal bars.
24	O	10'9"	11'6"	Rear wall vertical bars (engine end).
28	"	10'9"	11'6"	Front wall vertical bars (engine end)
23	"	10'9"	11'6"	End wall vertical bars (engine end).
10	P	10'8"	11'6"	Roof horizontal bars (pump end).
12	Q	10'5"	11'3"	Rear wall hor. below top of door (engine end).
11	R	9'6"	10'3"	Floor, edge of pump bed to edge of burster. Transverse bars.
24	S	8'7"	9'6"	Roof longitudinal bars (engine end).
24	T	8'6"	9'6"	Roof longitudinal bars (engine end).
10	U	8'2"	9'0"	End wall vertical bars (engine end).
13	U	8'2"	9'0"	Rear wall vertical bars (engine end).
16	U	8'2"	9'0"	Front wall vertical bars (engine end)
14	U	8'2"	9'0"	Buttress vertical bars.
8	V	8'0"	8'9"	Rear wall longitudinal bars below top of door.
38	W	7'8"	8'6"	Roof transverse bars.
25	W	7'8"	8'6"	End walls horizontal bars.
41	X	6'0"	6'9"	Floor transverse bars outer edge front wall, edge of burster.
8	Y	3'10"	4'9"	Floor transverse bars, edge of pump bed to edge of footing course.
9	Z	3'2"	4'0"	Edge of pump bed to rear end footing course.
4	a	2'7"	3'6"	Edge of pump shaft to outer edge footing course.

900'0" x $\frac{1}{2}$ " diam. bars in odd lengths, to be cut into 3'6" and 2'6" lengths as stirrups.

43

3595.46 cubic feet.

208.66 Tons.

194.41 barrels cement.

58.59 cubic yards sand.

118.51 cubic yards aggte.

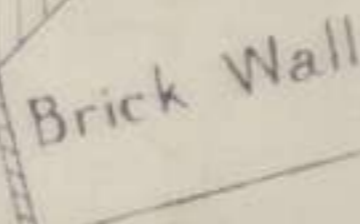
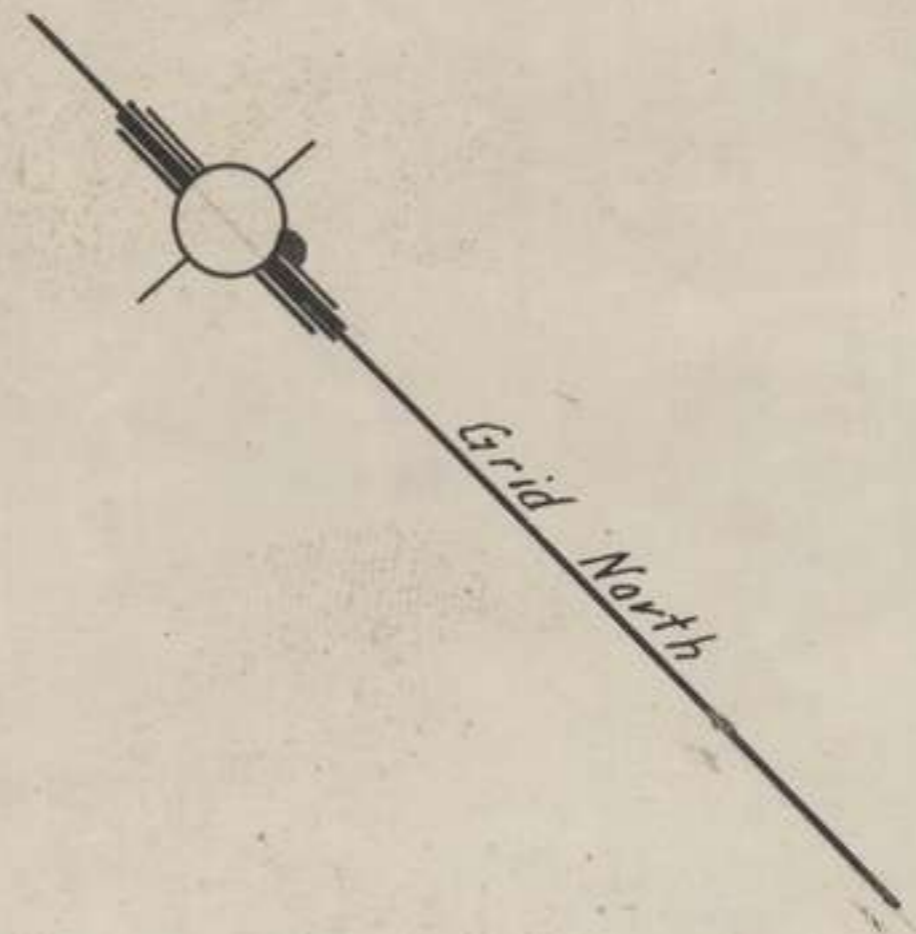
A. M. Baynes Captain,

Survey Office,

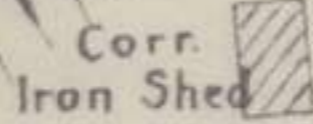
1st Aust. Pioneer Bn.

5

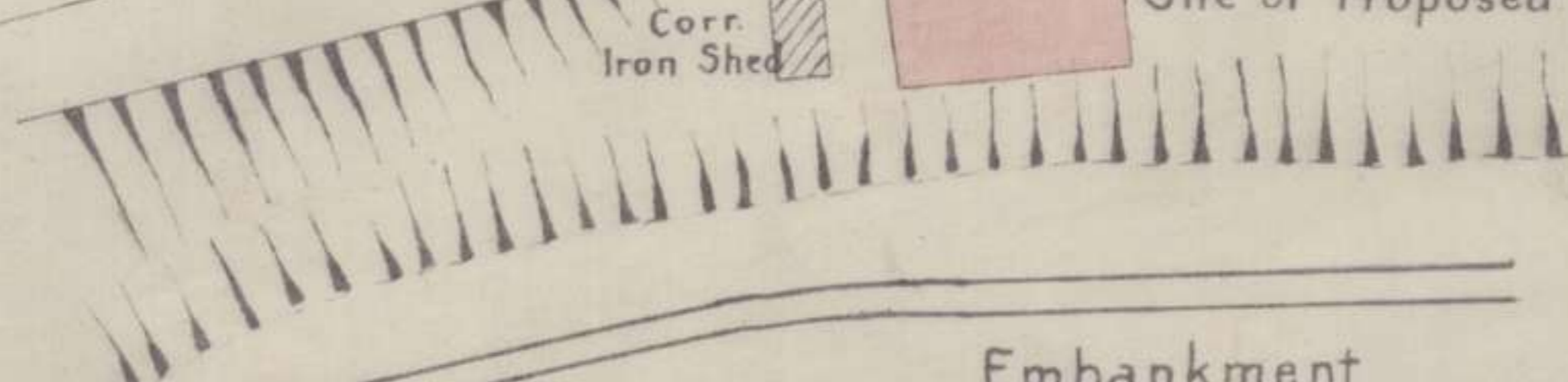
SITE OF
Reinforced Concrete Shelter
 For
Pumping Plant
 at
V 28 b. 4.4.
Scale 50^{ft} to 1ⁱⁿ



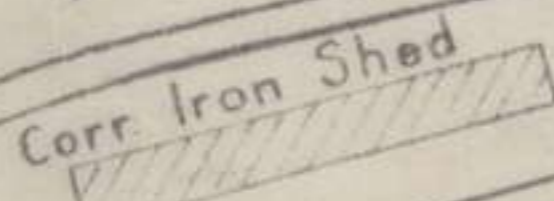
Roadway



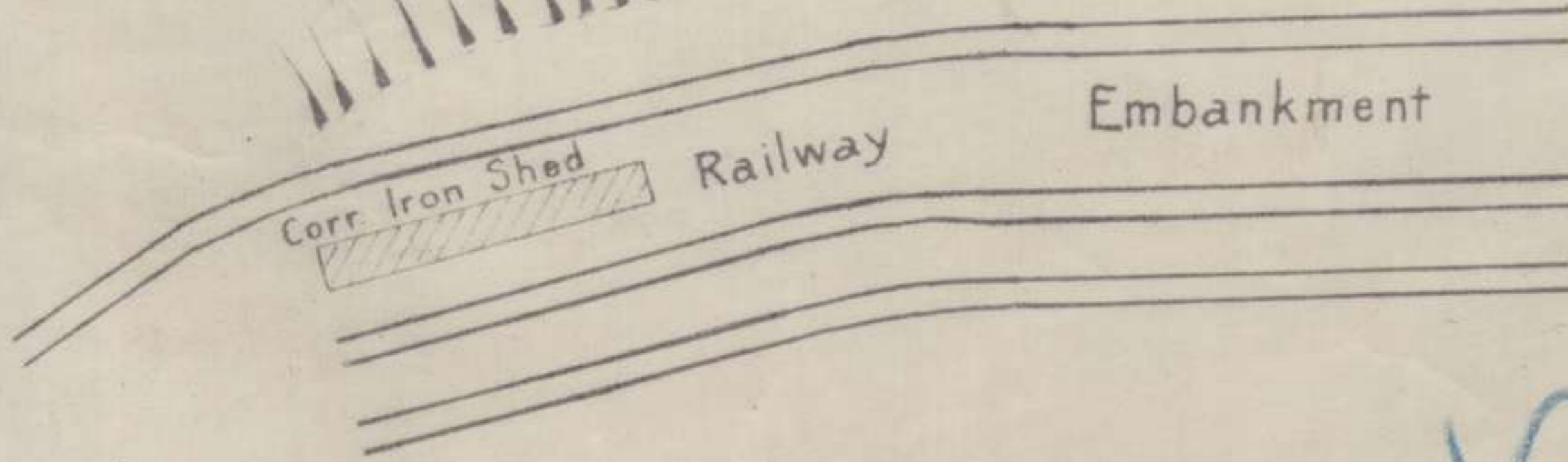
Site of Proposed Shelter



Embankment



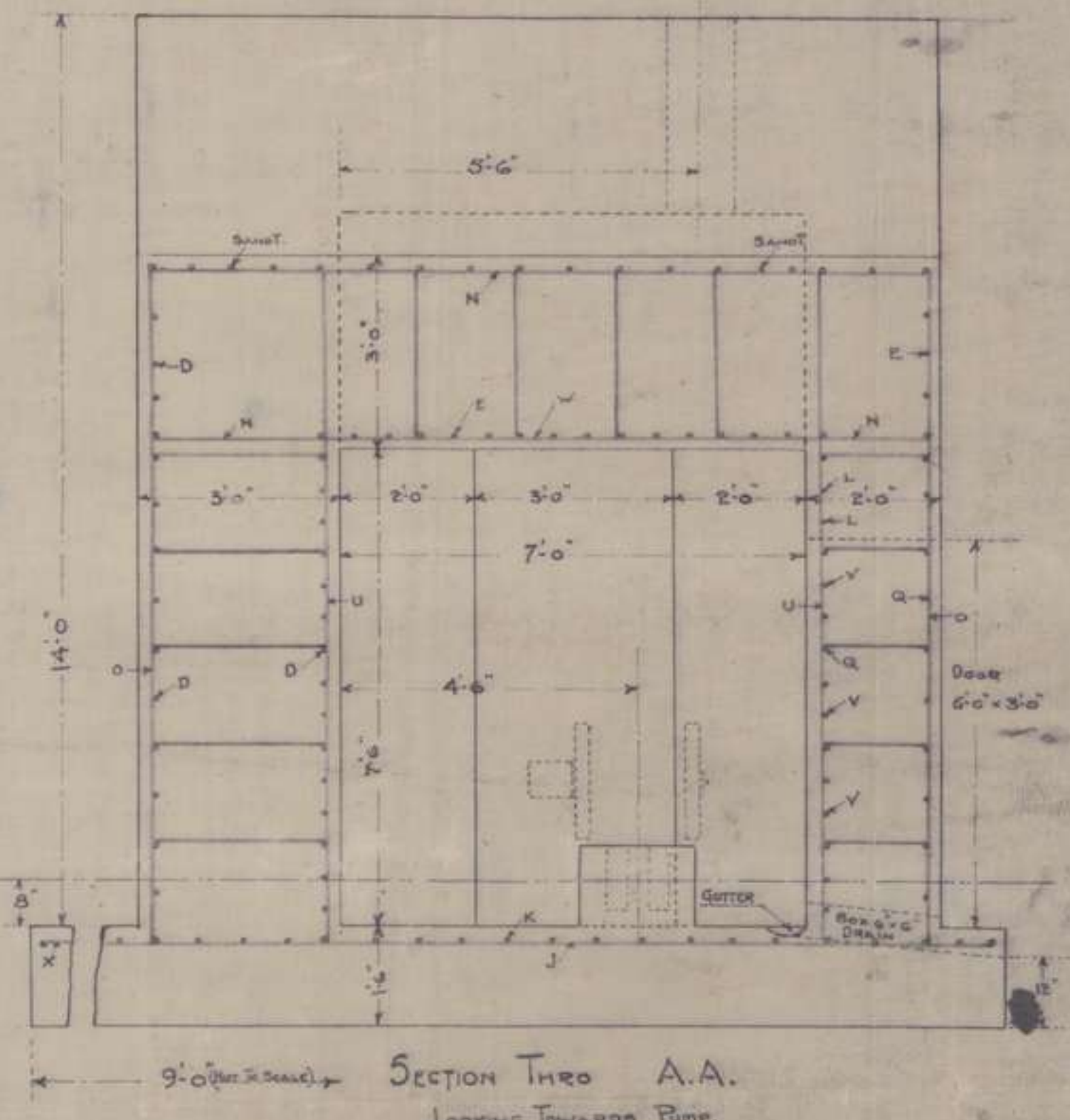
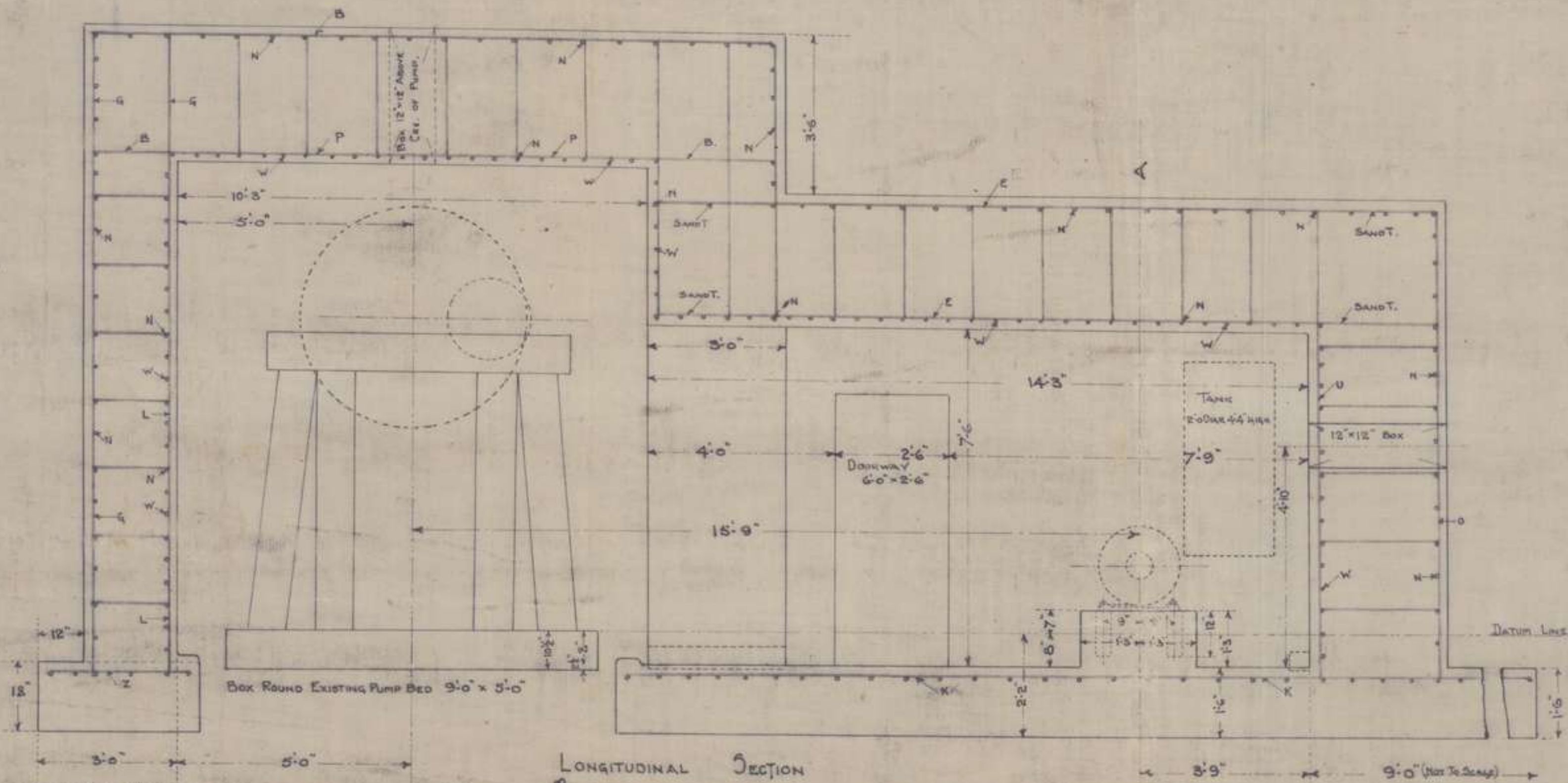
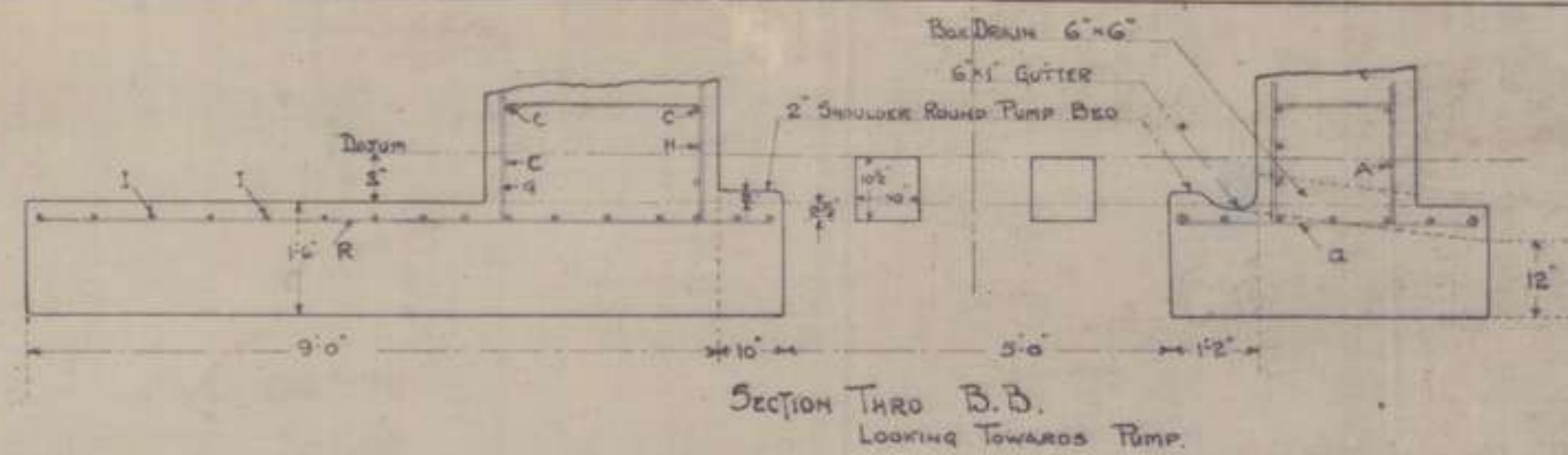
Railway



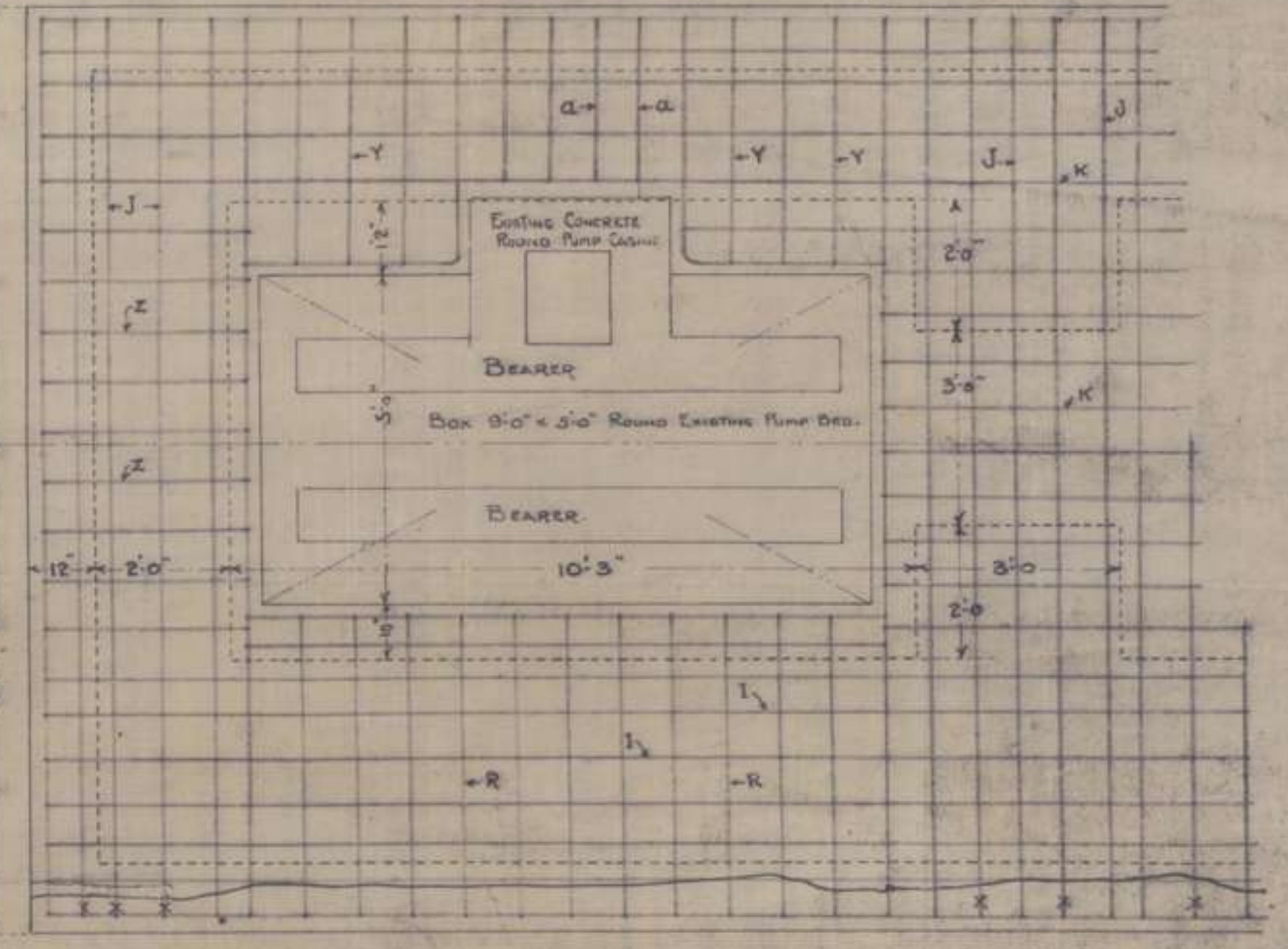
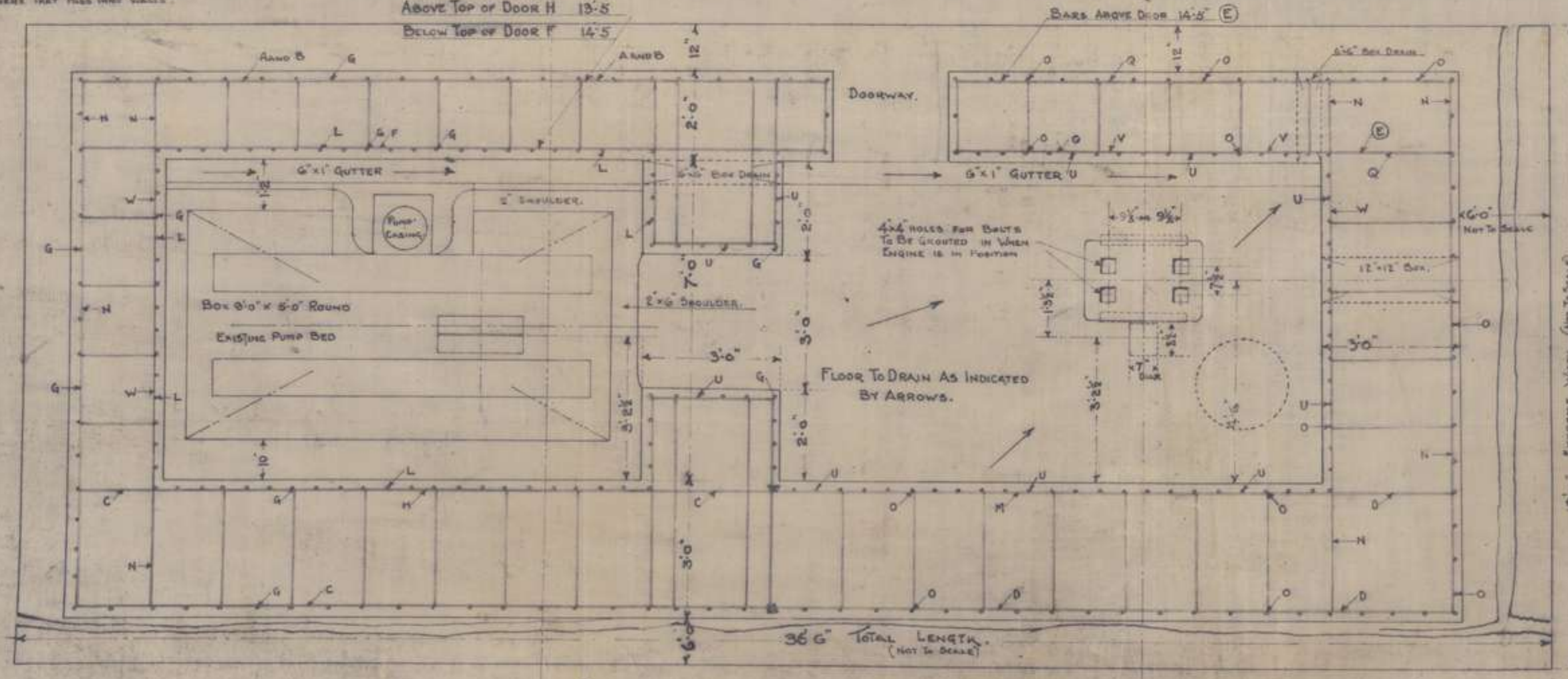
Handwritten initials "RG" in blue ink.

REINFORCED CONCRETE SHELTER FOR PUMPING PLANT AT V28b4.4.

SCALE = 1/2 INCH TO ONE FOOT.



EXISTING PIPES ARE TO BE SUITABLY BOXED WHERE THEY PASS THROUGH WALLS.



REINFORCED CONCRETE SHELL
PUMPING PLANT
APPENDIX 5

43

WEEKLY EMPLOYMENT AND LOCATION REPORT.

6/7/18

101

UNIT.	STRENGTH.	LOCATION.	EMPLOYMENT.
1st Aust. Pioneer Bn. ("A" Company). Major A. F. ANDERSON.	6 208	W. 27. a. 5. 4. (Concrete M.G. position). V. 3. B. 3. 5. (Concrete M.G. position). W. 26. d. 2. 6. (Concrete M.G. position). Rouge Croix defences. Caestre Siding. 1st and 2nd Arty. Bdes.	55 tons concrete mixed and thrown. salvaging stone. Erecting reinforcing irons. 50 tons concrete mixed and thrown. salvaging stone. 53 tons concrete mixed and thrown. Improving and strengthening defensive positions. 200 yards double apron wire fence from W. 15. b. 60. 95. to W. 9. d. 7. 4. 120 yards double apron fence from W. 9. d. 9. 5. to W. 9. d. 7. 4. 5000 square yards of crop mown down. 206 yards trench dug from W. 16. a. 05. 70. to W. 9. d. 87. 10. Loading material on to transport and unloading same at dump. supervision of construction of artillery dugouts.
1st Aust. Pioneer Bn. ("B" Company). Capt. F. A. LEITH, M.C.	4 190	W. 29. c. Support Line, W. 29. d. Pradelles, W. 21. c. Barre, W. 19. d. W. 13. d. Strassele Station.	475 yards 3'6" trench widened, deepened and improved. 40 yards new drainages, average depth 3'. 160 yards trench firestepped. 370 yards trench revetted and duckwalked. 800 yards trench widened and improved. Parapet revetted. 4 dugouts 75% excavated. 72 dunks completed in dugouts. Roof of dugouts malthoided. Crops cut on frontage of 300 yards. 6 knife rests completed. 150 yards hedge thinned. Loading and salvaging parties.
1st Aust. Pioneer Bn. ("C" Company). Capt. M. U. HUBBE.	4 202	W. 30. a. 4. 3. to W. 30. e. 2. 0. W. 25. b. 05. 65. W. 29. a. 6. 7. W. 22. c. 0. 0. V. 28. b. 3. 6. E. 3. G. C. 7. Martyn Dump. 64th and 2nd Arty. Bdes. Pradelles defences.	600 yards deepening and widening trench. Improving parapet. 400 yards parapet sandbagged. 56 dugouts excavated 6'8" x 4' x 3'. 20 communication trenches dug to dugouts 8 yards x 2' x 3'. 98 yards drain and sump. 3 knife-rests and 16 yards double apron wiring. M.G. position repaired and improved (complete). Preparing site for pill-box. Preparing site for pill-box. Preparing site for pill-box. Forest Party. construction and improvement of dugouts. 1 platoon as nucleus garrison and maintaining and repairing trench.

APPENDIX

6

80

42

31

UNIT	STRENGTH.	LOCATION	EMPLOYMENT.
1st Aust. Pioneer Bn. ("D" Company). Lieut. A. A. OLLEY, D. G. M. A/O. C.	4 163	Support Line from W. 30. a. 2. 8. to W. 30. a. 20. 00 ----- Divisional Area.	Repairs to Nord street communication trench. 40 yards support line repaired and parapet strengthened constructing 4 large knife rests. 160 yards trench for drainage excavated. 120 yards trench widened and deepened. constructing dugout for Artillery O.P. Carrying and salvaging parties. ----- Patrolling and maintaining roads.

Capt & Adjutant,
for C.C.,
1st Aust. Pioneer Battalion.

131

131

WEEKLY EMPLOYMENT AND LOCATION REPORT.

12/7/18

UNIT.	STRENGTH.	LOCATION.	EMPLOYMENT.
1st Aust. Pioneer Batta. ("A" Company.) Major. A. F. ANDERSON.	4 121	W. 27. a. 5. 4. ----- B. 3. b. 3. 6. ----- W. 26. d. 2. 6. ----- Caestre siding, ----- 1st and 2nd Artillery Bdes. ----- Rouge Croix defences.	Constructing concrete M. G. position. 10 tons concrete thrown. Removing boxing and cleaning up. Position completed on 9/7/18. ----- Construction of concrete M. G. position. 41 tons concrete thrown. Removing boxing and cleaning up. Position completed 10/7/18. ----- Construction of concrete M. G. position. 51 tons concrete thrown. Removing boxing and cleaning up. Position completed 10/7/18. ----- Loading material on to transport and unloading same at dump. Completed 10/7/18. ----- Supervision of construction of Artillery dugouts. Completed 11/7/18. ----- 60 yards trench dug. Cutter circle completed. wiring gaps. Making knife-rests and wiring road ends. Completed on roads between Rouge Croix and Strazeele.
1st Aust. Pioneer Batta. ("B" Company.) Captain F. A. LEITH, M. C.	4 190	Berre, W. 19. d. and Prédelles, W. 21. c. ----- W. 29. c. <i>app</i> ----- Support Line, E. 5. a. and b. ----- Merris Street. ----- Strazeele defences.	Deep dugouts pumped daily. 8 gas-proof doors made for same, and roofs malthoided. 18 knife rests made. 370 yards double apron and 260 yards single apron fence erected. Crops cut on 150 yards front. 227 yards trench widened to 5'8". 200 yards trench deepened to 6'. 270 yards trench revetted and duckwalked. 468 yards trench firestepped. 380 yards parapet levelled. Excavation for 3 dugouts complete and communication trenches for same. ----- 380 yards trench improved and trimmed. 180 yards trench widened. 135 yards trench revetted. 70 yds trench deepened. 62 yards trench duckwalked. 250 yards firestep built and parapet levelled. 100 yards trench deepened for drainage. 40 yards drain dug 3' x 2'6" average depth. 17 dugouts completed. ----- 195 yards trench improved. 50 yards new drain average depth 2'6". 20 yards drain deepened. 65 yards new trench 3'6" x 3'. 220 yards trench widened, deepened and improved. Maintenance of trenches.

APPENDIX

6

32

UNIT.	STRENGTH.	LOCATION.	EMPLOYMENT.
1st Aust. Pioneer Batta. ("B" Company - Contd.)	4 220	strasse station, VOLTA	salvaging R. M. material. Loading parties.
1st Aust. Pioneer Batta. ("C" Company). Lieut. R. GRIGSON, A/C.O.	4 220	H. 3. c. 0. 7.	Preparing site for pillbox, two beams put in position. salvaging timber for frames and pipes for water supply. Frames for forms and centring cut. supporting roof completed and mixing boards prepared
		V. 28. b. 4. 4.	salvaging timber for forms and piping for water supply. Demolishing concrete engine base. Repairing road to pumping station. Excavated 12 cubic yards for engine base. Installing water service.
		E. 4. b. 9. 9.	site for pillbox prepared. Mixing board prepared. salvaging timber for forms and pipes and tank for water supply.
		Pradelles defences.	1 Platoon as nucleus garrison. 8 Knife-rests made for inner and outer defences.
		W. 27. a. 9. 2. to W. 27. a. 7. 9.	150 yards double apron fence erected.
		W. 21. d. 03. 10. to W. 27. a. 8. 9.	150 yards do. do.
		W. 20. d. 6. 4. to W. 20. d. 6. 9.	250 yards do. do.
		W. 20. b. 6. 0. to W. 20. b. 7. 4.	300 yards do. do.
		Miscellaneous.	maintaining and repairing trenches. Dump Guard at Caestre siding. Forest Party at Martyn Dump. Construction and improvement of artillery dugouts for 64th and 2nd Arty. Brigades. Loading and Unloading parties for concrete material. Bagging 2030 bags metal and 900 bags sand.
1st Aust. Pioneer Batta. ("D" Company). Capt. H. A. TOWNSEND, M.C.	7 190	Support Line, W. 30. a.	275 yards support trench revetted. 305 yards revetment anchorage completed. 90 yards trench duckwalked. 2 ammunition recesses complete. 540 yds trench widened and deepened. 40 yards prepared for anchorage. 40 channels excavated for anchorage. 200 yards drainage complete. 725 yards parapet levelled and sandbagged. parapets strengthened.
		W. 23. c. 8. 5. to W. 23. d. 2. 2.	150 yards trench 4' deep excavated. 55 yards drainage complete.
		W. 24. c. 5. 1.	20 yards drainage complete.
		W. 23. d. 8. 5.	27/15' knife rests complete. 20 yards D.A. wire fence.
		W. 21. a. 1. 9.	3 Knife rests complete. 140 yards drain wired.
		Nord Street.	20 yards trench repaired.
		W. 17. d. 2. 4. to W. 23. b. 1. 4.	120 yards D.A. fence erected along drainage. 3/20' knife rests complete.

WEEKLY EMPLOYMENT AND LOCATION REPORT.

20/7/18

UNIT.	STRENGTH.	LOCATION.	EMPLOYMENT.
1st Aust. Pioneer Batta. ("A" Company). Major A. F. Anderson.	2 72	Rouge Croix Defences. W.27.c.4.2. to W.19.c.3.7.	Wiring road in front of Rouge Croix. Constructing knife rests. Improving support line. 25 sheets corrugated iron and 4 cells wire galved and carried to job. 40 yds trench revetted. 75 yards anchored back. 20 yards trench graded. 65 yards trench revetted. 140 yards anchored back. 40 yards parapet and parapets sandbagged. 80 yards grading trench. 88 cubic yards excavation for trench shelters. unloading and carrying material.
1st Aust. Pioneer Batta. ("C" Company). Lieut. R. GRIBSON, A/C.O.	4 220	A.3.c.c.7. ----- A.b.4.9.9. ----- V.28.b.4.4. ----- Pradelle's defences, W.20.b.7.4. to W.21.a.23.10. W.21.a.25.10. to W.21.a.33.60. W.21.a.27.25. to W.21.c.00.55. ----- Rouge Croix defences. ----- W.15.b.7.5. W.9.d.85.40. ----- To A.3.c.c.7. ----- To A.4.b.9.9.	Construction of pillbox. excavation complete. Water service complete. forms prepared. 17 cubic yards floor concreted. platform prepared for barrow runs. Construction of pillbox. walls in building strutted. Water service completed. Roof of shed over pillbox strengthened. 8 cubic yards concrete thrown for base. forms prepared. Construction of concrete shelter for pumping plant. site camouflaged. excavation for base complete. forms prepared. 28 cubic yards concreting of base. One platoon as nucleus garrison from 14th to 17th July. Maintaining defences. 250 yards double apron fence erected. 80 yards double apron fence erected. 350 yards double apron fence erected. One platoon as nucleus garrison from 17 to 20/7/18. Maintaining defences. 10 knife rests constructed. Hedges thinned. 60 yards double apron fence erected. 50 yards double apron fence erected. Transported 50 tons metal, 25 tons sand, 24 barrels cement, timber for forms, piping for water service and iron for reinforcing. Transported 40 tons metal, 25 tons sand, 24 barrels cement, timber for forms, piping for water service and iron for reinforcing. P.F.O.

APPENDIX

6

34

43

UNIT.	STRENGTH.	LOCATION	EMPLOYMENT.
"C" company continued.		To V.28.b.4.4. Caestre siding, Miscellaneous.	Transporting 50 tons metal, 45 tons sand, 44 barrels cement, timber for forms, piping for water service and iron for reinforcing. Party bagging 2800 bags metal and 900 bags sand. Guard at Caestre siding dump. Forest party at Martyn dump. Construction and improvement of artillery dugouts for 64th and 2nd Arty. Bdes. parties salvaging timber for forms, iron for reinforcing and piping for water service. preparing iron for reinforcing.
1st Aust. Pioneer Batta. ("D" company.) Capt. H. A. TOWNSHEND, M.C.	7 183	V.11.c.2.5. W.30.a.1.6. to W.24.c.5.1. Nord street. W.13.d.1.3. W.29.c.6.8. A.5.b.5.5. to W.29.d.3.1. W.30.a.5.9. - W.30.a.2.8. Support Line. Morris street. Outer Line straggles Defences. W.28.c.7.5. Morris street Communication Trench. A.5.b.1.4.	Constructing building for divisional baths. support line patrolled and repaired. patrolled and 20 yards damaged trench repaired. Road damaged by shell fire repaired. 10 yards damaged trench repaired. 60 yards parapet sandbagged. 60 yards firestep erected. 145 yards parapet sandbagged. 120 yards firestep erected 240 yards trench revetted. 220 yards trench widened, deepened and graded. 130 yards parapet levelled. 30 yds damaged trench repaired. 40 yards trench duckwalked. 225 yards trench revetted. 110 yards widened and deepened for revetment. 265 yards parapet sandbagged. 175 yards anchorage complete. 25 yards trench duckwalked. 195 yards parapet prepared for anchorage. 55 yards parapet strengthened. 350 yards parapet levelled. Two machine gun emplacements completed. 200 yards trench widened and deepened ready for revetment. 110 yards sandbagged. 115 yards firestep erected. 80 yards parapet levelled. 70 yards trench revetted. 12 yards trench duckwalked. 190 yards firestep erected. 50 yards parapet sandbagged 50 yards parapet levelled. 40 yards trench deepened. 25 yards excavated for drainage. 160 yards trench graded and drained. 42 yards excavated for drainage. 42 yards duckwalked. 1 large sump excavated.
No.1 company, 17th Bn. Worcestershire Regt.	2 114 (2 days)	Boire - Repairing defences Hazebrouck - Divl. Baths Boire siding.	Trench cleared W.19.d.5.3. to 8.7. Berm cleared W.19.c.9.3. to d.6.4. 96 feet revetment complete. Clearing ground for baths and salvaging and loading timber from compound. salvaging 214 sheets and 120 1/2 sheets corr. iron and dumping at W.13.c.5.6.

35

WEEKLY EMPLOYMENT AND LOCATION REPORT.

27/7/18
UNIT 13

UNIT	STRENGTH	LOCATION	EMPLOYMENT
1st Aust. Pioneer Batta. ("C" Company.) Lieut. R. GREGSON, A/O.C.	5 230	E. 3. c. 0. 7.	Construction of pillbox. Erection of forms completed. Erecting reinforcing iron. Throwing concrete.
		E. 4. b. 9. 9.	Construction of pillbox. Concreting of base completed. Erection of forms completed. Erecting reinforcing bars. Throwing concrete.
		V. 28. b. 4. 4.	Construction of concrete shelter for pumping plant. Concreting of base completed. Digging drain from plant base. plumbing and extension of water service. Erection of forms complete. Erecting reinforcing rods and steel ggrids. Forming road damaged by bomb. Excavation for tank. Throwing concrete.
		Rouge Croix defences, W. 16. a. 80. 95. W. 9. d. 9. 3. W. 9. d. 7. 5. to W. 16. a. 05. 65.	One platoon as nucleus garrison maintaining defences. 120 yards double apron wire erected. 3 knife-rests made 30 yards double apron wire erected. Widening and turving parapet and parapets to 6 feet for 300 yards.
		To E. 3. c. 0. 7.	Transporting 34 tons metal, 12½ tons sand, 8 loads iron and timber and 48 barrels cement.
		To E. 4. b. 9. 9.	Transporting 32½ tons metal, 13 tons sand, 9 loads of iron and timber and 48 barrels cement.
1st Aust. Pioneer Batta. ("D" Company.) Capt. H. E. TOWNSEND, M. C.	7 159	To V. 28. b. 4. 4.	Transporting 20 tons metal, 41½ tons sand, 8 loads iron and timber, 45 barrels cement.
		To W. 7. a. 0. 8.	20 loads timber and iron, etc., for reinforcing. 218 barrels cement, 149 concrete blocks, 162½ bags cement.
		Caestre siding. Miscellaneous.	Bagging 2100 bags metal and 400 bags sand. Dump Guards Forest party at Martyr Dump. Construction and improvement of dugouts for 64th and 2nd Arty. Bdes. salvaging timber for forms and iron for reinforcing, also piping for water service. Preparing salvaged iron for reinforcing and forms for concreting at W. 7. a. 0. 8.
		Support Line, E. 5. a. 5. 5.	274 yds trench revetted. 225 yds parapet sandbagged. 205 yds parapet levelled. 340 yds parapet 18" berm constructed. 186 yds trench duckwalked. 193 yds fire-step complete. 250 yds trench widened, deepened and graded and prepared ready for revetment. 1 machine gun emplacement 70% complete. 33 yds damaged trench repaired. 2 infantry shelters and 10 yds C. Ts. to same complete. 40 yds drain deepened and cleaned.

APPENDIX

UNIT.	STRENGTH.	LOCATION.	EMPLOYMENT.
1st Aust. Pioneer Battn. ("D" Company - contd.)		Tiflis Street, W.29. c.6.9. Cufer Strazecle, W.28. c.7.5. Merris Street Commun- ication Trench. Merris Street Commun- ication Trench forward. V.11. c.2.5. New Commun. Trench. E.5. b.6.2. to E.6. c.1.2. W.17. c.15.70.	132 yds trench widened, deepened and graded for revetment. 66 yds revetting 60% complete. 105 yds firestep complete. 30 yds trench duckwalked. 135 yds parapet levelled. 107 yds parapet sandbagged. 180 yds trench widened and deepened. 160 yds trench widened 190 yds firestep erected. 265 yds parapet sandbagged. 155 yds trench duckwalked. 75 yds trench widened, deepened and graded. 20 yds excavated for drain. sump excavated and drain to same. 25 yds parapet sandbagged. 130 yds trench deepened. 35 yds trench widened. 40 yds revetment to trench complete. 3 dugouts for Infantry complete and C. T's to same 40% complete. 90 yds drainage complete. 87 yds trench duckwalked. 118 yds trench deepened, graded and drained. 35 yds trench drainage deepened. 1 large sump 50% complete. Supervising and erection of Divisional Baths. 480 yards trench excavated, average depth 3'6".
1st Aust. Pioneer Battn. ("A" Company). Major A. F. ANDERSON.	4 198	W.24. c.7.2. to X.19. c.3.7. W.30. a.3.5. to W.29. d.70.75. X.19. c.05.80. X.19. c.4.3. to X.25. b.311. Loading & Unloading parties.	Constructing trench shelters. salvaging timber and erect- ing shelters. 15 dugouts completed. Improving support line. 292 c.yds excavation for trench shelters. Carrying, loading and unloading material. 20 shelters and 1 M.G. shelter completed. Draining, cleaning and levelling trenches. 30 yds trench widened. 12 yds trench revetted (incomplete). sandbag revetting 10 dugouts. 10 yds trench sandbagged. 40 yds trench semi-complete. Improving support line. 145 yds revetted. 137 yds revetted back. 46 yds sandbagging parapet and parapets. 60 yds trench sandbagged. 70 yds trench widened and graded. constn of concrete C.P. Preparing reinforcing bars and boxing. salvaging and unloading material. Arranging water supply. 120 yds piping laid for water supply. salvaging 24/18' lengths 1 1/2" piping, timber for boxing and reinforcing iron. Bagging material. 10 tons concrete thrown. Digging communication trench. 900 yds (approx.) of trench excavated 3' top, 3' deep, 2' bottom. Loading material on to wagons at Martyn Dump and Caestre and unloading same at forward dump.

Capt & Adjutant,
for C.O.

1st Aust. Pioneer Battalion,

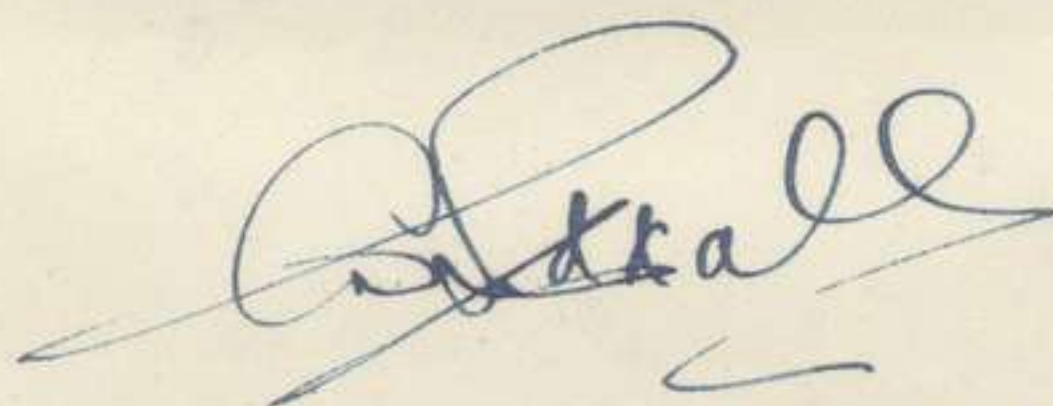
18th July, 1918.

DISTRIBUTION OF ATTACHED PIONEER COMPANY.

Party.	No. required.	Location.	Remarks.
"A" party.	1 platoon.	BORRE defences.	Maintenance, &c.
"B" party	1½ platoons	divisional baths.	Under O.C. "D" Company. Guide will pick up party at 8 a.m. daily at Coy. Billets.
"C" party.	1 platoon	Salvage Party.	To salvage corrugated iron, &c., at BORRE Railway siding and form dump at Company Headquarters (W.13. c. 9.6.).
"D" party.	½ platoon.	Road maintenance, &c.	As per the following instructions.
<p>"(Reference approaches to artillery bridges and gaps. Can the following be attended to please.</p> <p>Bridge, V.24. c.25.75. The approaches are bad and where the wheels leave the bridge on either side the ground will cut up quickly with use especially if rain has fallen previous to use. Can this be made good with metal, fascines or cinders.</p> <p>Bridge, V.17. b.50.80. Crossing dangerous over the railway at A.17. b.4.7. Railway metals stand 5" above sleepers and the sleepers stand above the ballast. Can ballast be thrown in to fill up to level of rails. Artillery bridge is in good order.</p> <p>Gap on 5th class road at W.25. a.0.9. Road passable to V.30. b.80.75. westward from this point there are three ditches to be filled in before striking the road at V.30. b.15.50.</p> <p>Road from W.20. b.1.9. to W.21. b.4.9. is in bad condition."</p>			

Note:-

- (a) Hours of work - 6 hours on the job.
 (b) Reference "C" party, 2 G. S. wagons will report daily to Company Headquarters for transport of this material.


Capt & Adjutant,
for C.O.,

1st Aust. Pioneer Battalion.

43

Headquarters - 303rd Engineers,
78th Division.

July 13, 1918.

MEMO. TO DIVISION ADJUTANT:

The following list shows the personnel of the party
visiting the trenches in accordance with memorandum from C. O.,
78th Division, dated June 24, 1918:

+ Colonel E. M. Markham, X
Lt. Col. Ora M. Leland, X
Major R. W. Gausmann,
Major Wm. J. Judge,
Capt. G. A. Noska,
Capt. H. B. Walker,
1st Lt. Kerr Atkinson,
Master Engr. E. A. Brophy,
Master Engr. C. R. Hogle,
Sergeant J. A. McKenzie,
Corporal C. A. Rucker,
Private Arthur Bird,
1 Cl. Sgt. J. B. Earell, Co. "A",
1 Cl. Sgt. G. W. Good, Co. "B",
Sergeant George J. Chamra, Co. "C",
1 Cl. Sgt. Wm. Endersbee, Co. "D",
1 Cl. Sgt. William E. Allen, Co. "E",
1 Cl. Sgt. John Jacques, Co. "F",

Sgt. J. J. Driscoll
and two orderlies:-

+ Private Edward Sanford,
Private Frank W. Day. X

15th
to
14th 3 days

E. M. Markham
Colonel, 303rd Engineers, N.A.

SECRET.

APPENDIX 9.3 ✓ 40

1st AUST. PIONEER BATTALION MOVE ORDER No. 53.

Battalion Headquarters,
17th July, 1918.

MOVE.

"B" Company and Band, under the command of Capt. F. A. LEITH, M.C., will proceed by march route to RACQUINGHEM leaving camp at 8.45 a.m. 18/7/18. Location - B.19.b.9.c.

ADVANCE PARTY.

An advance party consisting of 1 officer, 1 N.C.O. and 9 men will report to B.H.Q. at 9 a.m. 18/7/18.

DRESS.

Full marching order.

DISCIPLINE.

Strict march discipline will be maintained. On arrival at destination Battalion standing orders in regard to billets, villages, bounds, fire precautions, firearms, etc., will be promulgated to all concerned.

TRANSPORT.

Two (2) G. S. wagons, one (1) limber and cooker will accompany detachment. Wagons will report to company commander at 7 a.m., 18/7/18. On arrival at destination one (1) G. S. wagon will be given orders by C.O. detachment to return to Battalion transport lines, together with the limber.

MARCHING OUT STATE.

A marching out state will be forwarded to B.H.Q. (compiled carefully so as to ensure that no rations in excess of numbers are drawn).

RATIONS.

Supplies for consumption on the 19th July will be drawn from 2nd Aust. Inf. Bde. at B.8.b.6.c. (sheet 36A) on the 18th July.

HANDING OVER STATES.

Handing over states will be rendered to B.C.R. in duplicate, in addition one to the relieving company commander of the Pioneer Battalion, 40th division. In the event of the relieving company not having arrived a rear guard of 1 officer and 10 other ranks will remain to hand over BORRE defences and camp.

Capt & Adjutant,
for C.O.,
1st Aust. Pioneer Battalion.

Distribution:-

- No. 1 - B Coy.
- ✓ No. 2 - T. C.
- No. 3 - War diary.
- No. 4 - File.
- No. 5 - spare.
- No. 6 - spare.

10
 BILL OF QUANTITIES OF STEEL RODS REQUIRED IN ERECTION OF REINFORCED
 CONCRETE SHELTER AT V.23, B.4.4.

43

Item	Dimensions	Length of rod	Diam.	Description.
				<u>Floor under engine room.</u>
58	11'9"	12'6"	3/4"	Longitudinal from edge of pump bed to east burster.
31	12'6"	13'3"	do	Longitudinal from edge of pump bed to west end footings.
9	3'2"	3'11"	do	Longitudinal under west wall.
4	3'0"	3'9"	do	Longitudinal round pump casing.
41	12'6"	13'3"	do	Transverse from edge of pump bed to east burster.
41	6'0"	6'9"	do	Transverse from edge of south wall to edge of south burster.
11	9'6"	10'3"	do	Transverse from pump bed to south burster.
8	3'9"	4'6"	do	Transverse from pump bed to north footing.
4	2'6"	3'3"	do	Transverse from pump casing to Nth. footing
8	15'9"	15'6"	do	<u>North wall.</u> Outside longitudinal from west end to door opening.
10	14'9"	15'6"	do	Outside longitudinal from west end partition wall.
8	10'3"	11'0"	do	Outside longitudinal from door opening to east end.
6	14'3"	15'0"	do	Outside longitudinal from partition wall to east end over door opening.
21	14'0"		do	Outside vertical from west end to partition wall.
17	10'6"	11'3"	do	Outside vertical from partition wall to east end omitting door opening.
2	4'0"	4'9"	do	Outside vertical over door opening.
35	14'0"	14'9"	do	Outside vertical from north west corner to south side partition wall.
35	10'6"	11'3"	do	Outside vertical from south side partition wall to north east corner.
19	11'6"	12'3"	do	Outside longitudinal west wall.
14	11'3"	12'3"	do	Outside longitudinal east wall.
19	14'9"	15'6"	do	Outside longitudinal from west end to partition wall.
14	14'3"	15'0"	do	Outside longitudinal from partition wall to east end.
50	8'0"	8'9"	do	Inside vertical engine room to ceiling including jambs to partition wall.
24	10'6"	11'3"	do	Inside vertical engine room stirrups.
2	1'6"	2'3"	do	Inside vertical over door opening north wall.
43	11'6"	12'3"	do	Inside vertical pump room to ceiling.
23	14'0"	14'9"	do	Inside vertical pump room stirrups.
5	3'6"	4'3"	do	Inside vertical pump room over opening.
10	11'9"	12'6"	do	Inside longitudinal engine room south wall.
5	14'3"	15'0"	do	Inside longitudinal engine room south wall stirrups.
10	7'6"	8'3"	do	Inside longitudinal engine room east wall.
5	11'6"	12'3"	do	Inside longitudinal engine room east wall stirrups.
8	7'9"	8'6"	do	Inside longitudinal north wall to door opening.
4	10'3"	11'0"	do	Inside longitudinal north wall to door opening stirrups.
2	11'9"	12'6"	do	Inside longitudinal north wall over door opening.
10	1'0"	1'9"	do	Inside longitudinal from door opening to partition wall (below door opening).
20	2'0"	2'9"	do	Inside longitudinal partition wall from north wall and south wall to jamb.
5	3'6"	4'3"	do	Inside longitudinal partition wall from north wall (stirrups).
5	4'6"	5'3"	do	Inside longitudinal partition wall from south wall stirrups.
30	2'6"	3'3"	do	Inside longitudinal at jambs to partition wall.
20	2'0"	2'9"	do	Inside longitudinal partition wall from north and south walls to jamb.

43

(3)

Item	Dimensions	Length of rod.	Diam.	Description.
5	3'6"	4'3"	3/4"	Inside longitudinal partition wall from N North wall to jambs (stirrups).
5	4'6"	5'3"	do	Inside longitudinal partition wall from south wall to jambs (stirrups).
14	10'9"	11'6"	do	Inside longitudinal North wall.
7	12'3"	13'0"	do	Inside longitudinal North wall (stirrups).
14	10'9"	11'6"	do	Inside longitudinal South wall.
7	12'3"	13'0"	do	Inside longitudinal South wall (stirrups).
14	7'6"	8'3"	do	Inside longitudinal West wall.
7	11'6"	12'3"	do	Inside longitudinal West wall (stirrups).
4	7'6"	8'3"	do	Inside longitudinal partition wall over opening.
3	11'6"	12'3"	do	Inside longitudinal partition wall over opening (stirrups).
5	11'6"	12'3"	do	Outside longitudinal partition wall.
8	3'6"	4'3"	do	Outside vertical partition wall.
6	6'0"	6'9"	do	Outside vertical partition wall (stirrups).
<u>Ceiling engine room.</u>				
16	7'6"	8'3"	do	Ceiling engine room transverse.
11	11'6"	12'3"	do	Ceiling engine room transverse stirrups.
2	3'6"	4'3"	do	Ceiling engine room transverse over part. lintel.
14	7'6"	8'3"	do	Ceiling pump room transverse.
3	11'6"	12'3"	do	Ceiling pump room transverse stirrups.
6	11'9"	12'6"	do	Ceiling engine room longitudinal each side of door opening.
2	14'3"	15'0"	do	Ceiling engine room longitudinal each side of door opening, stirrups.
6	14'3"	15'0"	do	Ceiling engine room longitudinal over door opening.
10	10'9"	11'6"	do	Ceiling pump room longitudinal.
6	12'3"	13'0"	do	Ceiling pump room longitudinal stirrups.
42	11'6"	12'3"	do	Roof transverse rods.
10	14'3"	15'0"	do	Roof longitudinal over engine room.
8	16'9"	17'6"	do	Roof longitudinal over engine room stirrups.
18	14'9"	15'6"	do	Roof longitudinal over pump room.
68	2'6"	3'3"	1/2"	To all 3 foot walls.
50	2'6"	3'3"	do	To roof.
90	1'6"	2'3"	do	To all 2 foot walls.

W.D.

SECRET.

APPENDIX

11
No.

8

1st AUS. INFANTRY BATTALION DEFENCE SCHEME No. 7.

43
References:-
Sheet 27, 3, 2,
1/20,000

Battalion Headquarters,
30th July, 1918.

1. Defence scheme No. 6 dated 5th June is cancelled as from 8 p.m. to-day and the following substituted.
2. In the event of an attack the Battalion will be called upon to garrison as follows:-

A COMPANY - COURTE CROIX and KLITS HILL	}	Special orders for each locality and map attached.
B COMPANY - BORRE.		
C COMPANY - ROUGE CROIX.		
D COMPANY - PRADILLES.		
- These defended localities will be occupied by posts which will not be less than one (1) section of riflemen and one (1) Lewis Gun section, or two (2) sections of riflemen.
3. In the event of an inter-company relief, all defence maps and orders connected with the area will be exchanged between companies and receipts obtained.
4. Action during precautionary stage. Should indications point to the enemy making a general attack within 48 hours, a "precautionary stage" will be ordered. The message from Battalion Headquarters will be "ACCEPT PRECAUTIONARY STAGE." On receipt, the following action will be taken forthwith:-
 - (1) Move Company to defended locality, in fighting order, water bottles filled, 20 rounds S.A.A. per man.
 - (2) Company commanders will assume command of defended locality and report completion to Brigade and Battalion Headquarters.
 - (3) Issue extra rations.
5. In the event of a sudden attack the following order will be sent to Companies:-

"TAKE UP DEFENSIVE POSITION."

In case of a sudden attack if parties are working in forward positions they will occupy the nearest defence and report to the nearest Battalion or Brigade commander for orders.
They will not withdraw.
6. Working parties will always carry arms. Officers and N.C.O.s will always have written instructions as to action in case of attack. Practice manning will be carried out under Battalion arrangements.
7. The signal officer will arrange to maintain communications between all defended localities and Battalion Headquarters.
8. Gas shell or projector attacks are the most likely forms of attack. Appliances such as shell cases are to be installed for the purpose of spreading alarm (at once). Gas sentries must be posted in all posts and billets and the most rigid gas discipline insisted upon. For full details see "standing orders for defence against gas." Cellars and dugouts unprotected are to be evacuated during a gas shell bombardment and will not be re-entered except on the direct order of an officer.
9. All strong points, machine gun positions, works, trenches and Headquarters must be clearly marked by notice boards.
10. Twenty-four (24) hours reserve rations of food and water will be held in defences as under:-

For the nucleus garrison, calculated on a basis of the present strength of each company. If already in position a detailed state will be forwarded to B.H.Q. for information.

Reserves will be placed in position and a permanent trench guard posted by companies.

Reserves will normally be held at company or Battalion Battle Headquarters.

P.T.O.

44
42

APPENDIX

(2)

44

11. General Instructions.

(a) All troops must be informed how much depends on their personal courage and determination to maintain the defences of the forward zone.

(b) An intense bombardment with H.S. and Gas and probably heavy smoke screens may be expected along the whole front. As S.C.S. signals may not be seen short blasts of straub horns lasting 10 seconds will be used as a supplementary S.C.S. signal. These horns will be installed in the front line forthwith. All ranks will be warned that this signal will differ from the gas alarm, in that the signal will not be continuous but in short blasts.

(c) While it is not to be anticipated that during heavy bombardments any locality will be absolutely free from shells, subordinate commanders should move garrisons to the least shelled parts of trenches. Further, in order to avoid casualties subordinate commanders should, if necessary, move garrison out of trenches forward or to a flank. In such cases men are not to scatter, but will be held together in platoons and companies ready to fight should the enemy appear. Lewis gun magazines and ample S.A.A. must be carried.

(d) It should be understood by all ranks that in the country we now hold, a formed body of men can fight just as well behind ditches, hedges, in crops and shell holes, etc., as in a trench and if the latter is destroyed by the bombardment full use must be made of all natural cover. Opportunities for skillful use of Lewis guns will be frequent.

(e) On the order to stand to arms, horses will be unharnessed but not hitched into limbers. Wagons will be loaded with surplus stores and blankets, also officers' kits and returned to transport with officers' chargers and cooks.

Capt & Adjutant,
for C.O.
1st Aust. Pioneer Battalion.

Distribution:-

- No. 1 - A Coy.
- No. 2 - B Coy.
- No. 3 - C Coy.
- No. 4 - D Coy.
- No. 5 - L.S.C.
- No. 6 - T.C.
- No. 7 - Bde.
- No. 8 - War Diary.
- No. 9 - Pils.
- No. 10 - Spare.

COURTE CROIX DEFENDED LOCALITY.

43

1. Object. The defended locality forms a strong point which forms the northern eminence of the line STRAZELLE AVENUE - STRAZELLE COURTE CROIX SWITCH & COURTE CROIX. It denies a hostile advance from a N.E. direction.
2. Works. Have been constructed to provide for all round defence.
3. Garrison. The garrison consists of three platoons of Pioneers. There are no vickers guns actually in the defended locality but guns sited in close vicinity give adequate support.
4. The defence of COURTE CROIX falls within the tactical responsibility of the G.C.C. Left Brigade in the Line, who will issue the necessary detailed instructions.
5. Preliminary arrangements.
 - (a) The garrison will be quartered in the close vicinity of the defences.
 - (b) 300 rounds S.A.A. per rifle, 10 No. 25 bombs per man, 15 No. 36 Rifle bombs per cup discharger, and 5,000 rounds per Lewis Gun will be maintained in the defences.
 - (c) 24 hours reserve rations of food and water will be maintained.
6. When an attack is eminent the garrison will man the trenches. In the event of a gas bombardment the direction of the wind will be noted and the garrison moved accordingly.
7. Medical and communication requirements will be provided for in the General defensive scheme of the Brigade concerned.
8. Without written orders from G.C.C. Left Brigade sub-sector no withdrawal is to take place from these defences.

1. Object. A strong point has been established at PRADELLES whose object is to deny a hostile advance, or to form a pivot for our troops if required.
2. The village is virtually in the reserve line, forward zone.
3. Works have been constructed to meet attack from -
 - (a) STRAZELLE VILLAGE, along the STRAZELLE-PRADELLES road.
 - (b) The S.A. if an enemy advance breaks our line in the vicinity of the MONT DE MERRIS and an advance takes place astride the railway.
 - (c) The H.A. from the STRAZELLE-ROUGE CROIX ridge. These works are shown on attached plan.
4. The garrison consists of one company of the Divisional Pioneer Battalion. A skeleton garrison of one platoon will be maintained at all times in this strong point. Improvements and repairs will be carried out by this skeleton garrison, supplemented by working parties when necessary. The skeleton garrison will be relieved periodically by other platoons of the company, thus ensuring that all are conversant with the locality and its work.
5. Command of this strong point is vested in the G.C.C. Left Line Brigade. Local command will be exercised by the officer commanding the Pioneer Company. His command post will be at W.S.I.A.1.1.
6. Preliminary arrangements. (a) All officers and N.C.O.s of the company detailed to PRADELLES S.P. will reconnoitre the routes from bivouac to trenches and will make themselves acquainted with the trenches they are to occupy when ordered.
 - (b) 300 rounds S.A.A. per rifle, 10 No. 23 bombs per man and 15 No. 36 rifle bombs per cup discharger will be maintained in the trenches in addition to 5,000 rounds per Lewis Gun.
 - (c) Sufficient S.A.A. to fill each man up to 20 rounds and No. 23 bombs to issue 2 per man will be maintained under Pioneer Battalion arrangements.
 - (d) A.D.M.S. will allot a medical officer who will in consultation with G.C.C. PRADELLES Defences, arrange a R.A.P. and stretcher bearers.
7. (a) On receipt of the order "Adopt precautionary stage" the garrison will complete up to 200 rounds S.A.A. and 2 Mills Bombs per man from stocks at Company Headquarters. In addition one day's iron ration will be carried. 200 gallons of water and 200 meat and biscuit rations will be drawn and stored where most likely to escape hostile shelling. This garrison will proceed to man the trenches in the PRADELLES Defences.
 - (b) Signal communications will be opened with Brigade Headquarters.
 - (c) A regimental aid post will be established and stretcher bearers allotted. M.C. in 6 (d) will take charge of this.
 - (d) When all troops are in position inform G.C.C. Left Line Brigade to that effect.
 - (e) Straggler posts will be established.
- (8) Action. When the direction of attack is clearly indicated dispositions will be amended suitably. Until this is the case the company will occupy the trenches on both sides of the road with patrols towards the col between STRAZELLE and ROUGE CROIX, towards STRAZELLE and towards the railway about E.S.d.. Liaison patrols will link the reserve line to PRADELLES Defences. Without written orders from the G.C.C. Left Line Brigade no withdrawal from PRADELLES DEFENCES is to take place.

DEFENCE OF BORRE (W.19.)

1. Object. A strong point has been established at BORRE, whose object is to deny a hostile advance and to form a pivot and delaying point.
2. The village covers the approach to HAZEBROUCK, by the STRAZELLE-PRADELLES road. It is sited on a slight eminence, which falls away to the S. and S.E. and overlooks a large area as far as the railway. On the N. the ground is flat and covered with crops. The forward zone and "B" Line of the second zone cover the village.
3. Works have been constructed as shown in attached diagram.
4. The fighting garrison will be one company of the Divisional Pioneer Battalion. A skeleton garrison of one platoon will be maintained at all times in this strong point. Improvements and repairs will be carried out by this garrison, supplemented by working parties from the Pioneer Company when necessary.
5. Command. The Commander of the garrison company will command the BORRE defences directly under the orders of Divisional H.Q. until such time as BORRE is included in the area of tactical responsibility of the G.O.C. Left Line Brigade. Command post will be at BRASSERIE (W.19.e.8.8.).
6. Preliminary arrangements - (a) All Officers and N.C.Os of the company detailed to BORRE defences will reconnoitre the routes from bivouac to trenches and will make themselves acquainted with the trenches and surroundings.
 (b) 300 rounds S.A.A. per man, 15 No. 36 rifle bombs per Cup discharger, 10 No. 23 Bombs per man and 3,000 rounds S.A.A. per Lewis Gun will be maintained in the trenches.
 (c) sufficient S.A.A. to fill each man up to 200 rounds and No. 23 bombs to issue 2 per man will be maintained under pioneer company arrangements.
 (d) A.D.M.S. will allot a medical officer who in consultation with G.O.C. BORRE defences will arrange a R.A.P. and stretcher bearers.
7. (a) On receipt of the order "adopt precautionary stage" the garrison will complete up to 200 rounds S.A.A. and 2 Mills Bombs from stocks. In addition one day's iron rations will be carried. This garrison will proceed to man the BORRE defences.
 (b) signal communication will be opened with Hqrs. Left Line Brigade.
 (c) A ~~R.A.P.~~ R.A.P. will be established and stretcher bearers allotted. M.C. in 6 (d) will take charge of this.
 (d) when all troops are in position inform Hqrs. Left Line Bde.
 (e) straggler posts will be established.
8. Action. When the direction of attack is clearly indicated dispositions will be amended suitably. Until the direction of attack is clear, the garrison will occupy the trenches N. and S. of the PRADELLES-HAZEBROUCK road. Liaison patrols will maintain touch with PRADELLES Garrison and the troops occupying the "B" Line, 2nd zone defences. Without orders from Divl. or Brigade Headquarters no withdrawal from BORRE defences is to take place.

1. Object. The defended locality forms a strong point which with FLATRE supports the Reserve Line.
2. Works. Have been constructed to provide for all round defence.
3. The Garrison. Consists of a skeleton force of Pioneers (platoon) up to the precautionary stage (after which it is increased to one company) and 2 machine guns of the 1st M.G. Battalion.
4. Command of ROUGE CROIX defences will pass to commander of the Company detailed by the Divisional Pioneer Battalion when the precautionary stage is adopted. His command post will be W.10. c. 95.35.
5. Preliminary arrangements.
 - (a) All Officers and N.C.O.s of the company detailed in para. 3, will reconnoitre the routes from assembly position to trenches and will make themselves acquainted with the trenches they are to occupy when ordered.
 - (b) 300 rounds S.A.A. per rifle, 10 No. 23 bombs per man and 15 No. 36 rifle bombs per cup discharger will be maintained in the trenches in addition to 5,000 rounds S.A.A. per Lewis Gun (30,000 rounds) C.C. Company will arrange this for the complete garrison.
 - (c) Sufficient S.A.A. to fill each man up to 200 rounds and No. 23 bombs to issue 2 per man will be maintained under pioneer company arrangements.
6.
 - (a) On receipt of the order "Adopt precautionary stage" the company detailed will complete up to scale in para 5 (c) above and will carry 1 days iron rations. They will then proceed to man their trenches in the ROUGE CROIX defences. Command will pass to C.C. Company.
 - (b) Communication will be opened with support Battalion Here., Left Brigade.
 - (c) Straggler posts will be established.
 - (d) When all troops are in position inform Left Line Brigade Here. who will pass the information to D.H.Q.
7. Action. When the direction of attack is clearly indicated dispositions will be amended suitably. Until this is the case the garrison will occupy the trenches to the N.E. and S. of ROUGE CROIX. Liaison patrols will work to FLATRE and to the col between ROUGE CROIX and STRAZERLE. Without written orders from the C.C.C. Left Line Brigade no withdrawal from the ROUGE CROIX defences is to take place.

Visit of French Prime Minister to the Australian Troops.

It will interest members of the AUSTRALIAN Corps to know how it was that the Prime Minister of France came up to visit us the other day and what he said.

When the Supreme Council of the Allies was sitting at Versailles the other day, and the Prime Ministers of France, Italy, and England were present around the table, and all the Prime Ministers of the Dominions, it so happened that there came in, while they were deliberating there, the news of the battle of Hamel, and of the success that the Australian Troops had gained. All those present asked the Secretary to telegraph at once their congratulations to the Australians. But when it came to M. Clemenceau, the venerable Prime Minister of France, after starting to instruct the Secretary to telegraph his congratulations also, he said: "No, I will go and tell them myself."

M. Clemenceau is 78 years of age. Every Sunday he drives to some division of the French Army, goes to see them close up to the line, travelling hundreds of miles through the country in spite of his age. This Sunday he determined to come to an Australian Division. As the 4th Australian Division had been directing the operations at Hamel, he came to that. After chatting and laughing with the Officers and men who could be got together at short notice at Headquarters—as much at home amongst them as if he were a boy again—he said he would like to say a word or two to them on behalf of the French people. A number of the men were gathered into a rough semicircle, and the little Premier, "The Tiger," as he is known by the French, standing in front of them simply, without any attempt to flatter or over-do his praise of them, made them in English the following speech:—

"Gentlemen," he said, "I hope you will be kind enough to excuse my faulty English. I know only a little, but I find it very useful at this moment, this English, because it enables me to tell you what all the French people think of you. When the Australians came to France we expected a great deal of you. First, because we had heard of what you had done in war in Gallipoli; secondly, because we had heard a great deal of what you had accomplished in peace in your own country. The French people expected that when you came to France to fight in this great struggle, which, after all, is the same for the French, the English, the Australians and all those who have fought this great war out in the cause of freedom, which is the same for all, they expected a good deal of you; and I should not like to say that they have been surprised that you have fulfilled that expectation. They admired most the fact that you were capable of doing what they expected of you. The more they expected of you, the more they held it in admiration.

"Hamel—after all, that is not such a very great battle; but I am ready to hold that in a comparatively small battle the man, the fighting man, who goes in to give all he has—his home, his hopes, his life itself—in a small battle his qualities show in all the brighter light, the action of each individual man having more influence in the final result. In a very big action it is not possible to notice so well the qualities of particular men. Well, in this battle the Germans saw that they had before them men who came from far away to attest that wherever free people lived, in England, in France, in Australia, New Zealand, Canada, and all free countries, these were not ready to give way to the Boche who has acted with such barbarity—who wounded and killed not only men in battle, but women and old men and little children—who ruined and destroyed our country, our houses, our fruit trees, even our gardens.

"We have all been fighting beside each other here. It is such a wonderful thing that this should happen in history on these old fields of battle which you had read of in books, hearing of wars which you had not seen and the consequences of which you had never expected to see. It is a wonderful thing that you should be fighting beside us on these old battlefields of history. Still, it has come true. The work of our fathers, which we wanted to leave unharmed to our children, they tried to rob us of. They tried to take from us all that was dearest in modern society. But the free nations of the world said that the Boche should not do this so long as they were there to come and prevent it. Men were the same in England, in France, in Italy, and all the countries which are proud of being the home of a free people. And that is what you did. And that is what made us greet you when you came. We knew that you would fight a real fight. But we did not know that from the very beginning you would astonish the whole continent.

"I have come here just for the very purpose of seeing the Australians. I am going back to-morrow to see my countrymen and tell them: 'I have seen the Australians. I have looked in their eyes. I know that these men who have fought great battles beside us in the cause of freedom will fight alongside us again until the cause of freedom for which we are battling is safe for us and for our children.'"

The Australians who had been listening to this fine speech from the Grand Old Man of France, gave three tremendous cheers for France, which affected him greatly. He then called for three cheers for Australia, and left to go back to Paris.